

## Dear VIZIO Customer,

Congratulations on your new VIZIO E420VL, E470VL, or E550VL television purchase. To get the most out of your new VIZIO HDTV, read these instructions before making any adjustments, and retain them for future reference. We hope you will experience many years of enjoyment from your new VIZIO HDTV High Definition Television

For assistance, call 877-MYVIZIO (877-698-4946) or e-mail us at www.VIZIO.com.

To purchase or inquire about accessories and installation services for your VIZIO HDTV, visit our website at www.VIZIO.com or call toll free at 888-849-4623.

We recommend you register your VIZIO HDTV either at our website www.VIZIO.com or fill out and mail your registration card. For peace of mind and to protect your investment beyond the standard warranty, VIZIO offers on-site extended warranty service plans. These plans give additional coverage during the standard warranty period. Visit our website or call us to purchase a plan.

Write down the serial number located on the back of your HDTV for easy reference when obtaining warranty support:

Serial #:	Purchase Date	

VIZIO is a registered trademark of VIZIO, Inc. dba V, Inc.

HDMI logo and "High Definition Multimedia Interface" are registered trademarks of HDMI Licensing LLC.

Manufactured under license from Dolby Laboratories.

Dolby and the double-D symbol are trademarks of Dolby Laboratories.





are trademarks of SRS Labs, Inc.

TruSurround HD and TruVolume technologies are incorporated under license from SRS Labs, Inc.

This product qualifies for ENERGY STAR in the "factory default (Home Use)" setting and this is the setting in which power savings will be achieved. Changing the factory default picture setting or enabling other features will increase power consumption that could exceed the limits necessary to qualify for Energy Star rating.

THE TRADEMARKS SHOWN HEREIN ARE THE PROPERTY OF THEIR RESPECTIVE OWNERS: IMAGES USED ARE FOR ILLUSTRATION PURPOSES ONLY. VIZIO, THE V LOGO, WHERE VISION MEETS VALUE AND OTHER VIZIO TRADEMARKS ARE THE INTELLECTUAL PROPERTY OF VIZIO INC. PRODUCT SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. © 2010 VIZIO INC. ALL RIGHTS RESERVED.

# **Important Safety Instructions**

Your HDTV is designed and manufactured to operate within defined design limits. Misuse may result in electric shock or fire. To prevent your HDTV from being damaged, the following rules should be observed for the installation, use, and maintenance of your HDTV. Read the following safety instructions before operating your HDTV. Keep these instructions in a safe place for future reference.

- To reduce the risk of electric shock or component damage, switch off the power before connecting other components to your HDTV.
- Unplug the power cord before cleaning your HDTV. A damp cloth is sufficient for cleaning your HDTV. Do not use a liquid or a spray cleaner for cleaning your HDTV. Do not use abrasive cleaners
- Always use the accessories recommended by the manufacturer to insure compatibility.
- When moving your HDTV from an area of low temperature to an area of high temperature, condensation may form in the housing. Wait before turning on your HDTV to avoid causing fire, electric shock, or component damage.
- Use only with the cart, stand, tripod, bracket, or table specified by
  manufacturer or sold with your HDTV. When a cart is used, use caution when
  moving the cart/HDTV combination to avoid injury from tip-over. Do not place
  your HDTV on an unstable cart, stand, or table. If your HDTV falls, it can injure a person and
  cause serious damage to your HDTV. Use only a cart or stand recommended by the
  manufacturer or sold with your HDTV.
- A distance of at least three feet should be maintained between your HDTV and any heat source, such as a radiator, heater, oven, amplifier etc. Do not install your HDTV close to smoke.
   Operating your HDTV close to smoke or moisture may cause fire or electric shock.
- Slots and openings in the back and bottom of the cabinet are provided for ventilation. To ensure
  reliable operation of your HDTV and to protect it from overheating, be sure these openings are
  not blocked or covered. Do not place your HDTV in a bookcase or cabinet unless proper
  ventilation is provided.
- Never push any object into the slots and openings on your HDTV cabinet. Do not place any
  objects on the top of your HDTV. Doing so could short circuit parts causing a fire or electric shock.
  Never spill liquids on your HDTV.
- Your HDTV should be operated only from the type of power source indicated on the label. If you
  are not sure of the type of power supplied to your home, consult your dealer or local power
  company.
- Do not apply pressure or throw objects at your HDTV. This may compromise the integrity of the display. The manufacturer's warranty does not cover user abuse or improper installations.
- The power cord must be replaced when using different voltage than the voltage specified. For more information, contact your dealer.
- Your HDTV is equipped with a **three-pronged grounded plug (a plug with a third grounding pin)**. This plug will fit only into a grounded power outlet. This is a safety feature. If your outlet does not accommodate the three-pronged, have an electrician install the correct outlet, or use an adapter to ground your HDTV safely. **Do not defeat the safety purpose of the grounded plug.**
- When connected to a power outlet, power is always flowing into your HDTV. To totally disconnect power, unplug the power cord.



- The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of un-isolated, dangerous voltage within the inside of your HDTV that may be of sufficient magnitude to constitute a risk of electric shock to persons.
- The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and servicing instructions in the literature accompanying your HDTV.
- Do not overload power strips and extension cords. Overloading can result in fire or electric shock.

- The wall socket should be installed near your HDTV and easily accessible.
- Only power of the marked voltage can be used for your HDTV. Any other voltage than the specified voltage may cause fire or electric shock
- Do not touch the power cord during lightning. To avoid electric shock, avoid handling the power cord during electrical storms.
- Unplug your HDTV during a lightning storm or when it will not be used for long period of time. This will protect your HDTV from damage due to power surges.
- Do not attempt to repair or service your HDTV yourself. Opening or removing the back cover may
  expose you to high voltages, electric shock, and other hazards. If repair is required, contact your
  dealer and refer all servicing to qualified service personnel.
- Keep your HDTV away from moisture. Do not expose your HDTV to rain or moisture. If water penetrates into your HDTV, unplug the power cord and contact your dealer. Continuous use in this case may result in fire or electric shock.
- Do not use your HDTV if any abnormality occurs. If any smoke or odor becomes apparent, unplug the power cord and contact your dealer immediately. Do not try to repair your HDTV yourself.
- Avoid using dropped or damaged appliances. If your HDTV is dropped and the housing is damaged, the internal components may function abnormally. Unplug the power cord immediately and contact your dealer for repair. Continued use of your HDTV may cause fire or electric shock.
- Do not install your HDTV in an area with heavy dust or high humidity. Operating your HDTV in environments with heavy dust or high humidity may cause fire or electric shock.
- Follow instructions for moving your HDTV. Ensure that the power cord and any other cables are unplugged before moving your HDTV.
- When unplugging your HDTV, hold the power plug, not the cord. Pulling on the power cord may damage the wires inside the cord and cause fire or electric shock. When your HDTV will not be used for an extended period of time, unplug the power cord.
- To reduce risk of electric shock, do not touch the connector with wet hands.
- Insert batteries in accordance with instructions. Incorrect polarities may cause the batteries to leak which can damage the remote control or injure the operator.
- If any of the following occurs, contact the dealer:
  - o The power cord fails or frays.
  - Liquid sprays or any object drops into your HDTV.
  - Your HDTV is exposed to rain or other moisture.
  - Your HDTV is dropped or damaged in any way.
  - o The performance of your HDTV changes substantially.

# **Television Antenna Connection Protection**

# **External Television Antenna Grounding**

If an outside antenna/satellite dish or cable system is to be connected to the TV, make sure that the antenna or cable system is electrically grounded to provide some protection against voltage surges and static charges.

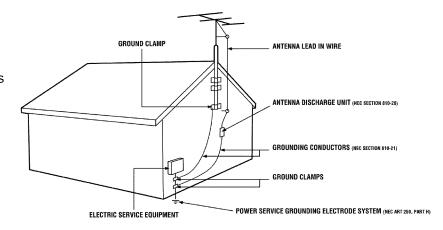
Article 810 of the National Electrical Code, ANSI/NFPSA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of the grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements of the grounding electrode.

# **Lightning Protection**

For added protection of the TV during a lightning storm or when it is left unattended or unused for long periods of time, unplug the TV from the wall outlet and disconnect the antenna or cable system.

#### **Power Lines**

Do not locate the antenna near overhead light or power circuits, or where it could fall into such power lines or circuits.



Remember, the screen of the coaxial cable is intended to be connected to earth in the building installation.

# **Advisory of the DTV Transition**

The nationwide switch to digital television broadcasting will be complete on June 12, 2009, but your local television stations may switch sooner. After the switch, analog-only television sets that receive TV programming through an antenna will need a converter box to continue to receive over-the-air TV. Watch your local stations to find out when they will turn off their analog signal and switch to digital-only broadcasting. Analog-only TVs should continue to work as before to receive low power, Class A or translator television stations and with cable and satellite TV services, gaming consoles, VCRs, DVD players, and similar products.

For additional information, contact the parties listed below, as appropriate:

FCC (US Federal Communications Commission)

http://www.fcc.gov/

Phone: 1-888-CALL-FCC (1-888-225-5322) TTY: 1-888-TELL-FCC (1-888-835-5322)

Fax: 1-866-418-0232 E-mail: fccinfo@fcc.gov

NTIA (National Telecommunications and Information Administration) http://www.ntia.doc.gov/ 1-888-DTV-2009

Listings of US Television Stations
http://www.high-techproductions.com/usTVstations.htm

Note: Your VIZIO HDTV is capable of receiving Digital Broadcasts, and no Digital Converter Box is required.

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# **Opening the Package**

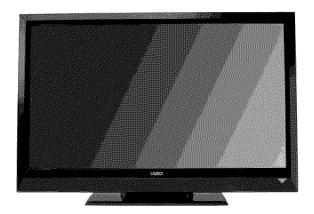
Your HDTV and its accompanying accessories are carefully packed in a cardboard carton that has been designed to protect it from transportation damage. After you have opened the carton, check that your HDTV is in good condition and that all of the contents are included.

The glass surface can easily be scratched or broken, so handle your HDTV gently and never place your HDTV with the glass facing downwards on a surface without protective padding.

**IMPORTANT:** Save the carton and packing material for future shipping.

# **Package Contents**

- VIZIO E420VL or E470VL or E550VL
- VIZIO remote control VR15 (E420VL only)
- VIZIO remote control VUR13 (E470VL and E550VL only)
- AA batteries for the VR15 remote control (2)
- AAA batteries for the VUR13 remote control (2)
- Power cord
- Detachable base with thumbscrew (E420VL and E470VL only)
- This user manual
- Quick Setup Guide
- · Registration Card



## **HDTV Accessories and Services**

Additional certified accessories for your HDTV are sold separately, including:

- Wall mounts
- High Definition cables
- Extra or replacement remote controls
- Sound Bars
- Blu-ray DVD Players

VIZIO also offers installation services and extended warranty services for your HDTV.

To purchase or inquire about additional accessories and services for your VIZIO HDTV, visit our website at www.VIZIO.com or call us toll free at **877-MYVIZIO** (877-698-4946).

**Caution:** Do not apply pressure or throw objects at your HDTV (including game controllers). This may compromise the integrity of the display. The manufacturer's warranty does not cover user abuse or improper installations.

# **Chapter 1 Setting Up Your HDTV**

- Read this user manual carefully before installing your HDTV.
- The power consumption of your HDTV is about 111W (E420VL); 134W (E470VL); 138W (E550VL) average. Use the included AC/DC power adapter. When an extension cord is required, use one with the correct power rating. The cord must be grounded and the grounding feature must not be compromised.
- Install your HDTV on a flat surface to avoid tipping.
- For proper ventilation, you must allow a 1" space between the back of your HDTV and the wall.
- Avoid installing your HDTV in places with high humidity, dust, or smoke so you do not shorten the service life of the electronic components.
- Install your HDTV in a level, landscape orientation, with the VIZIO logo at the bottom to prevent poor ventilation and excessive component damage.
- If you want to mount your HDTV on the wall, see below for additional information.
- Read this user manual carefully before installing your HDTV.

VIZIO offers professional installation services including home networking. Contact VIZIO for more information on these services at **877-MYVIZIO** (877-698-4946) or www.VIZIO.com.

# Attaching the E420VL TV Stand

**Note:** We strongly recommend that two people perform the setup and assembly due to the weight and size of the TV.

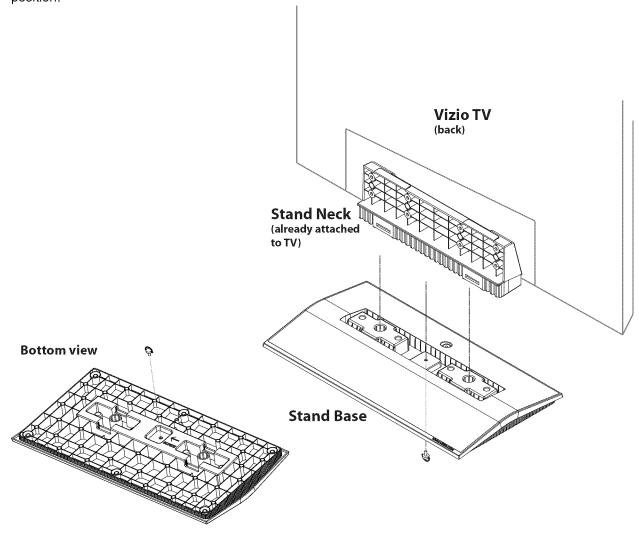
# Unpack the TV and stand base:

- 1. Remove the remote control, batteries, and power cord from the foam end caps.
- 2. Remove the two top foam end caps.
- 3. Remove the stand base from the packaging.
- 4. Remove the TV from the box and lay it face down on a clean, flat surface.

Note: Make sure that the surface is free of debris to prevent the TV screen from getting scratched.

## Attach the TV stand base:

- 1. Push the stand base onto the stand neck (already connected to TV).
- 2. On the bottom of the base, insert the thumb screw and tighten. Move the TV into an upright position.



# Attaching the E470VL TV Stand

**Note:** We strongly recommend that two people perform the setup and assembly due to the weight and size of the TV.

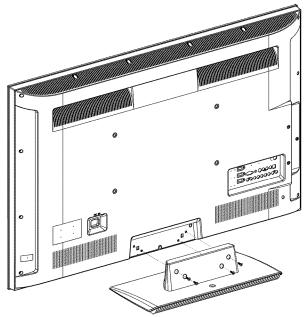
# **Unpack the TV and stand base:**

- 1. Remove the remote control, batteries, and power cord from the foam end caps.
- 2. Remove the two top foam end caps.
- 3. Remove the stand base from the packaging.
- 4. Remove the TV from the box and lay it face down on a clean, flat surface.

Note: Make sure that the surface is free of debris to prevent the TV screen from getting scratched.

## Attach the TV stand base:

- 1. Align the stand base to the back of the TV.
- 2. Insert the four screws provided and tighten.



# Wall Mounting your HDTV

Your HDTV can be mounted on the wall for viewing. If you choose to mount your HDTV on the wall, follow the instructions below.

1. Write down the serial number located on the back of your HDTV in the space provided on page 1 to

have it handy if you need to call for support.

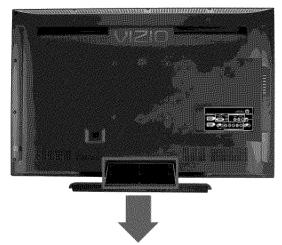
- 2. Remove the stand base and neck:
  - a. Disconnect the cables from your HDTV.
  - b. Place your HDTV face down on a soft, flat surface to prevent damage to the screen.
  - c. Remove the six (6) screws holding the stand neck, and then remove the neck and base.

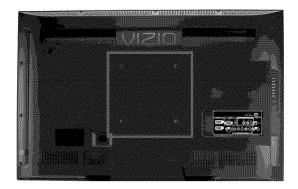
**Note:** To remove the base from the neck, unscrew thumbscrew on bottom.

- 3. Mount your HDTV on the wall:
  - a. Attach your HDTV to a wall mount (sold separately) using the mounting holes in the back panel of your HDTV.
  - Read the instructions that came with your specific wall mount to properly hang your HDTV.

Wall Mounting Specifications (E420VL & E470VL)		
Screw Size	M6	
Screw Length	20.0 mm	
Screw Pitch	1.0 mm	
Hole Pattern	VESA standard 200 x 200 mm spacing	

Wall Mounting Specifications (E550VL)	
Screw Size	M8
Screw Length	25 mm
Screw Pitch	1.25 mm
Hole Pattern	VESA standard 400 x 200 mm spacing

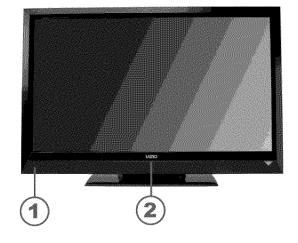




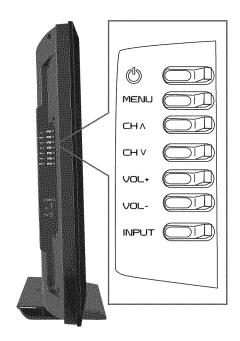
# **Chapter 2 Basic Controls and Connections**

# **Front Panel**

- Remote Control Sensor—Point the remote control directly at this window on the lower left corner of your HDTV for the best response to the remote signal.
- 2. **POWER 'VIZIO' LIGHT—**The VIZIO name lights white when powered on and orange when powered off.



## **Side Panel Controls**



**POWER (** U) —Turn your HDTV on by pressing the button once. Press the button again to turn your HDTV off.

**MENU**—Press to launch the on-screen menu. If a sub-menu is active, this button will proceed to the next level.

**CH** ▲/▼—Press to change the channels up or down. While the menu is active, these buttons function as up and down controls.

**VOL + / -** —Press to increase or decrease the speaker volume. While the menu is active, these buttons function as left and right controls.

**INPUT (ENTER)** —Press to cycle through the various devices connected to your TV (called Inputs). The inputs cycle in the following sequence: TV, AV, Comp, HDMI-1, HDMI-2, HDMI SIDE, RGB, and Media. After you have stepped through the entire sequence, you will return to the beginning.

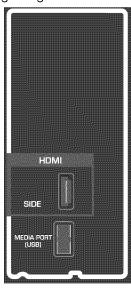
Additionally, when the OSD is active, this button confirms the menu function to be adjusted.

# **Side Panel Connection**

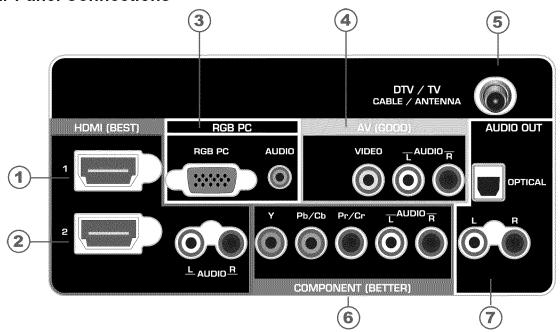
**HDMI**—Connect digital video devices such as a DVD player or Set-Top Box through this all digital connector. There are additional HDMI connectors on the back.

## USB:

- Insert a FAT/FAT32 formatted USB drive to view pictures.
- Service port for use by a professional service technician.



# **Rear Panel Connections**



- 1. **HDMI 1—**Connect digital video devices such as a DVD player or Set-Top Box through this all digital connector. There is an additional HDMI connector on the side.
- 2. HDMI 2 with L/R Audio—Connect another digital video device such as a DVD player or Set-Top Box through this all digital connector. For users who want to connect to a DVI enabled device, use a DVI-HDMI cable and connect the analog audio output of the device to the L / R AUDIO here. Your VIZIO Certified HDMI-DVI cables are available for purchase from www.VIZIO.com or by calling 877-MYVIZIO (877-698-4946).
- 3. **RGB PC**—Connect the video and audio from a computer here. Connect a 1/8" mini plug stereo connector from the computer to the TV if you want the sound to come from the HDTV speakers.
- AV—Connect composite video devices, such as a VCR or game console. Use the white and red connectors to connect the external audio from the same source.
- 5. **DTV/TV** Connect to an antenna or digital cable source. For digital TV stations in your area visit www.antennaweb.org. For cable and satellite Set-Top boxes, we recommend that you use a HDMI or component cable connection for high definition image quality.
- 6. **COMPONENT (Y Pb/Cb Pr/Cr with L/R Audio)**—Connect component video devices such as a DVD Player or set top box here.
- 7. AUDIO OUT:
  - OPTICAL—When digital TV is selected for viewing, the audio associated with the programming will be available on the S/PDIF Optical connector for connection to a VIZIO Sound Bar or your Home Theater system.
  - ANALOG L/R—Connect the audio from the HDTV to an external device, such as a home theater system, external amplifier, or stereo. Speakers cannot be connected directly here.

# **Chapter 3 VIZIO Remote Control**

# **Installing the Batteries**

- 1. Remove the battery cover.
- 2. Insert the batteries into the remote control. Make sure that you match the (+) and (-) symbols on the batteries with the (+) and (-) symbols inside the battery compartment.
- 3. Replace the battery cover.

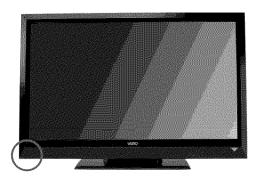


#### **Precautionary Tips for Inserting the Batteries:**

- Do not mix new and old batteries. This may result in cracking or leakage that may cause a fire or lead to personal injury.
- Inserting the batteries incorrectly may also result in cracking or leakage that may cause a fire or lead to personal injury.
- Dispose of batteries according to local hazardous waste regulations.
- Keep the batteries away from children and pets.

# Remote Control Range

- Point the remote control directly at this sensor for the best response to the remote signal.
- Do not place any obstacles between the remote control and the remote control sensor.
- The effective range of the remote control is approximately 22 feet (7 meters) from the front of the remote control sensor, 30° to the left and right, 20° up and down.



## **VIZIO Remote Control Precautions**

- The remote control should be kept dry and away from heat sources. Avoid humidity.
- If the TV responds erratically to the remote control or does not respond at all, check the batteries. If the batteries are low or exhausted, replace them with fresh batteries.
- When not using the remote control for a long period of time, remove the batteries.
- Do not take the batteries apart, heat them, or throw them into a fire.
- Do not subject the remote control to undue physical stress, such as striking or dropping it.
- Do not attempt to clean the remote control with a volatile solvent. Wipe it with a clean, damp cloth.

## **E420VL Remote Control Buttons**

**POWER (** )—Press to turn the TV on from the Standby mode. Press it again to return to the Standby mode.

#### **CEC-Supported Buttons:**

CEC needs to be set up and enabled for these buttons to work. See *CEC* on page 44 for more information.

- (Record)—Press to begin recording on your CEC-supported device.
- II (Pause)—Press to pause playback on your CEC-supported device.
- ▶ (Play)—Press to start Playback on your CEC-supported device.
- (Stop)—Press to stop playback/recording on your CEC-supported device.
- **I** (Previous)—Press to skip the previous track on your CEC-supported device.
- ◄ (Reverse)—Press to reverses playback on your CEC-supported device.
- ►► (Fast Forward)—Press to fast forward playback on your CEC-supported device.
- (Next)—Press to skip to the next chapter on your CEC-supported device.

**EXIT**—Press to exit from open menus.

MENU—Press to open the On-Screen Display (OSD) menu.

**OK**—Press this button to display the Channel List. Press to confirm selections for On-Screen Display (OSD) menus.

Silver Diamond (represented by ▲ ▼ ◀ ▶ in the manual instructions)—
Pressing up, down, left, or right on the points of the diamond are used to navigate the OSD menu. They will also be used as value settings when the slide bar is shown on the screen and option settings to turn a feature off or on.

BACK—Press to return to a previous OSD menu.

**GUIDE**—Press to display detailed program information when viewing a digital TV program.

**Color Buttons (Yellow, Blue, Red, & Green)**—These buttons currently do not operate any functions on your HDTV.

**VOL +/-**—Press to turn the volume up or down.

**MEDIA** – Use this button to access the USB drive to view your pictures.

**MUTE**—Press to turn the sound on and off.

**LAST**— Press to recall the previously viewed channel.

CH +/- —Press to change the channels up or down

**HDMI**—Press to select the HDMI input. Press repeatedly to cycle between both HDMI inputs.

AV—Press to select the AV input.

TV—Press to select the TV input.

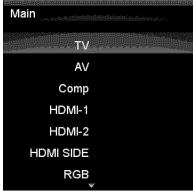
**Number Button Pad**—Press to select a channel or enter a password.

**INPUT**—Press to cycle through the various devices connected to your TV (called Inputs). The inputs cycle in the following sequence: TV, AV, Comp, HDMI-1, HDMI-2, HDMI SIDE, RGB, and Media. After you have stepped through the entire sequence, you will return to the beginning.

- (DASH)—Press to insert a dash between the main and sub-channels.

For example, channel 28-2 would be selected by the button sequence 2, 8, DASH, 2.





# **E470VL & E550VL Remote Control Buttons**

**POWER (** )—Press to turn the TV on from the Standby mode. Press it again to return to the Standby mode.

#### **Device Buttons:**

- **DVD**—Press to select a DVD player that has been programmed to work with this remote. See page 46 to program your remote control.
- AUDIO—Press to select a Home Theater System or Audio Amplifier that has been programmed to work with this remote. See page 46 to program your remote control.
- CABLE—Press to select a cable or satellite Set-Top box that has been programmed to work with this remote. See page 46 to program your remote control.
- TV—Press to return to TV mode. If the remote is not working, press this button to return the functions back to TV.

#### **CEC-Supported Buttons:**

CEC needs to be set up and enabled for these buttons to work. See *CEC* on page 44 for more information.

- (Record)—Press to begin recording on your CEC-supported device.
- II (Pause)—Press to pause playback on your CEC-supported device.
- ▶ (Play)—Press to start Playback on your CEC-supported device.
- (Stop)—Press to stop playback/recording on your CEC-supported device.
- (Previous)—Press to skip the previous track on your CEC-supported device.
- ← (Reverse)—Press to reverses playback on your CEC-supported device.
- ►► (Fast Forward)—Press to fast forward playback on your CEC-supported device.
- ▶ (Next)—Press to skip to the next chapter on your CEC-supported device.

**EXIT**—Press to exit from open menus.

MENU—Press to open the On-Screen Display (OSD) menu.

**OK**—Press this button to display the Channel List. Press to confirm selections for On-Screen Display (OSD) menus.

Silver Diamond (represented by ▲ ▼ ◀ ▶ in the manual instructions)—Pressing up, down, left, or right on the points of the diamond are used to navigate the OSD menu. They will also be used as value settings when the slide bar is shown on the screen and option settings to turn a feature off or on.

**BACK**—Press to return to a previous OSD menu.

GUIDE—Press to display detailed program information when viewing a digital TV program.

**Color Buttons (Yellow, Blue, Red, & Green)—**These buttons currently do not operate any functions on your HDTV.

**VOL +/-**—Press to turn the volume up or down.

**MEDIA** – Use this button to access the USB drive to view your pictures.

**MUTE**—Press to turn the sound on and off.

**LAST**— Press to recall the previously viewed channel.

CH +/- —Press to change the channels up or down

HDMI—Press to select the HDMI input. Press repeatedly to cycle between both HDMI inputs.



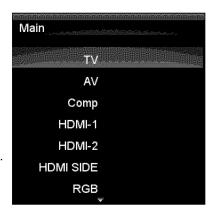
AV—Press to select the AV input.

TV—Press to select the TV input.

**Number Button Pad**—Press to select a channel or enter a password.

**INPUT**—Press to cycle through the various devices connected to your TV (called Inputs). The inputs cycle in the following sequence: TV, AV, Comp, HDMI-1, HDMI-2, HDMI SIDE, RGB, and Media. After you have stepped through the entire sequence, you will return to the beginning.

- (DASH)—Press to insert a dash between the main and sub-channels. For example, channel 28-2 would be selected by the button sequence 2, 8, DASH, 2.



# **Chapter 4 Getting Started**

Your HDTV has a built-in setup App that runs when you turn on your TV for the first time. Follow the on-screen directions to easily setup your new HDTV.

- 1. Insert the batteries into the remote control.
- 2. Connect the power cord to the power cord connector on the back of your HDTV, and then plug the power cord into an AC wall socket.
- 3. Connect your devices to your HDTV (see Chapter 6 for detailed steps).
- 4. Turn on your TV. The Setup App will automatically play and guide your thru the initial setup of your HDTV. Use the Arrow and OK buttons to navigate through the setup App. During the setup process you will:
  - Choose your Menu language
  - Set the TV to Home Mode for the best picture and most efficient energy usage.
  - Set your Time Zone and Daylight Savings preferences
  - Add your TV channels (unless you have a Cable/Satellite Set-Top Box)

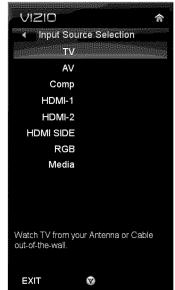


# Chapter 5 Using your HDTV for the first time Select Input Source

Select the input source for your HDTV by pressing the **INPUT** button on the remote control or the side of your TV. Pressing this button will cycle you through the following options: TV, AV, Comp, HDMI-1, HDMI-2, HDMI SIDE, RGB, and Media.

Turn on your device and you will see a picture on your HDTV. If there is no picture, make sure you have selected the correct input on your HDTV.

**Note:** If the selected device is RF connected, your HDTV needs to be in **TV** mode and on either channel 3 or channel 4 matching the channel which has been selected on the back of the VCR, Cable Box, External TV Tuner or Satellite Receiver. Refer to Owner or User's Manual of such equipment for details



# Watching a TV Program

Before you start watching TV, make sure that any cable, satellite or off-air antenna connections are secure. Also, verify that the AC/DC power adapter is plugged into a correctly grounded electrical outlet or surge protector.

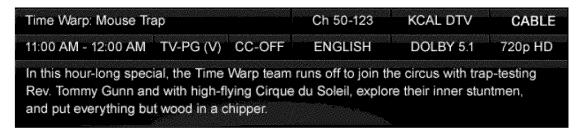
- 1. Press the power button on the remote control. The VIZIO logo on the front will light up white.
- Select the input to which your device is connected that provides TV programming (i.e. TV, HDMI, COMP).

**Note**: You should be able to see a picture. If you do not, make sure that all of your HDTV connections are secure and you have selected the correct video input source. Each press of the **INPUT** button on the remote control will cycle through the available inputs. Press the button until the input associated with the device you want to view is shown.

3. When using the TV input, press the channel buttons on the remote control or the TV to change the channel. The channel buttons will not work if you are watching a program using HDMI, Component, or AV inputs.

# **Viewing Digital TV Program Information**

When the channel is changed or when you press the **GUIDE** button, an information header is shown over the picture for a few seconds. Each press of the **GUIDE** button will display more information about the program:





# **Chapter 6 Connecting Equipment**

# Which Video Connection Should I Use?

You have six options for connecting your video equipment box to your HDTV from a basic connection to the most advanced for digital displays. Based on your Home Theater configuration, you can decide which option is the right one for you.

Connection Quality (type)	Connector	Description
Best (digital)	ндмі	<b>HDMI</b> delivers the best image quality of any of the cable types available and it's all done over one cable. You get a great picture and cut down on your cable clutter. HDMI provides digital quality and amazing sound so if your TV has HDMI, this is the connection type you should be using.
Best (digital)  Good (analog)	6	Connect your <b>antenna</b> or <b>coaxial</b> cable to watch TV programming. This cable usually comes from your cable box or right out of the wall.
Best (analog)	· ·	The <b>RGB (VGA)</b> port allows you to connect your computer so you can use the TV as your monitor.
Better (analog)	Y Pb L Pr R	Component consists of three cables for transmitting video and two cables for transmitting audio: one red and one white. Component video provides a sharper image than Composite video and should be used instead of composite when possible. However, because it is still an analog connection, it won't provide the high-quality video and audio that HDMI can produce.
Good (analog)	VIDEO L R	Composite consists of one yellow cable for transmitting video and two cables for transmitting audio: one red and one white. It is capable of transmitting stereo sound and standard definition video (480i). While it provides a good image, it has lower image quality than HDMI or Composite. So try to use one of those connections first.

**Note:** To maintain the display quality, use a VIZIO certified HDMI cable. This cable is available in 6, 8, and 12 foot lengths. Visit www.vizio.com or call 1-888-VIZIOCE (1-888-849-4623) for details.

# **Connecting Your Cable or Satellite Box**

## **Using HDMI (Best)**



Cable and Satellite Boxes that have a HDMI digital interface should be connected using HDMI for optimal results. To maintain image quality, use a VIZIO certified HDMI cable. This cable is available in 6, 15, and 30 foot lengths. Visit www.VIZIO.com or call **877-MYVIZIO** (877-698-4946) for details.

- 1. Turn off your HDTV and cable/satellite box.
- 2. Connect an HDMI cable to the **HDMI** output of your cable/satellite box and the other end to the **HDMI 1** or **2** jack on your HDTV.
- 3. Turn on the power to your HDTV and your cable/satellite box.
- 4. Select **HDMI-1**, **HDMI-2**, or **HDMI SIDE** using the **INPUT** button on the remote control or side of the TV.

#### Note:

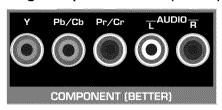
- The HDMI input on your HDTV supports High-bandwidth Digital Content Protection (HDCP). HDCP encrypts the transmission between the video source and the digital display for added security and protection.
- Refer to your cable/satellite Set-Top box user manual for more information about the video output requirements of the product or consult your cable or satellite operator.

#### **HDMI Connections for Cable or Satellite Boxes with DVI**

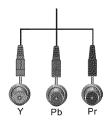


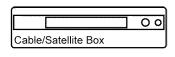
- 1. Turn off the power to your HDTV and HDTV cable/satellite box.
- 2. Using a HDMI-DVI cable, connect the DVI end to your cable/satellite box and the HDMI end to the **HDMI 2** jack on your HDTV.
- 3. Connect the audio cables (white and red) from the DVI audio output jacks on the cable/satellite box to the **HDMI 2 L** and **R AUDIO** jacks on your HDTV.
- 4. Turn on the power to your HDTV and your cable/satellite box.
- 5. Select HDMI-2 using the INPUT button on the remote control or side of the TV.

## **Using Component Video (Better)**







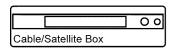


- 1. Turn off your HDTV and cable/satellite box.
- 2. Connect the component cables (green, blue, and red) from your cable/satellite box to the **COMPONENT** jacks on your HDTV.
- Connect the audio cables (white and red) from your Set-Top box to the COMPONENT L and R AUDIO jacks on your HDTV.
- 4. Turn on your HDTV and cable/satellite box.
- 5. Select **Comp** using the **INPUT** button on the remote control or side of the TV.

## **Using Composite Video (Good)**



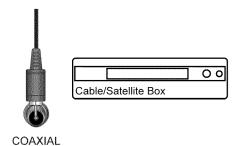




- 1. Turn off your HDTV and Set-Top box.
- 2. Connect the video cable (yellow) from your Set-Top box to the **AV** jack (yellow) on your HDTV.
- Connect the audio cables (white and red) on your Set-Top box to the AV L and R AUDIO jacks on your HDTV.
- 4. Turn on your HDTV and Set-Top box.
- 5. Select **AV** using the **INPUT** button on the remote control or side of the TV.

## **Using Coaxial (Antenna) (Good)**

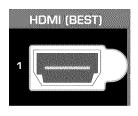




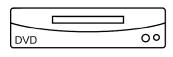
- 1. Turn off the power to your HDTV.
- 2. Connect the coaxial (RF) connector from your antenna or digital cable to the **DTV/TV CABLE/ANTENNA** connector on your HDTV.
- 3. Turn on the power to your HDTV.
- 4. Select TV using the INPUT button on the remote control or side of the TV.
- Search for new channels. See Auto Channel Scan on page 24 for more information on scanning for channels.

# **Connecting Your DVD Player**

## **Using HDMI (Best)**







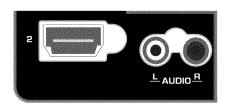
DVD players that have a HDMI digital interface should be connected using HDMI for optimal results. To maintain image quality, use a VIZIO certified HDMI cable. This cable is available in 6, 15, and 30 foot lengths. Visit www.VIZIO.com or call **877-MYVIZIO** (877-698-4946) for details.

- 1. Turn off your HDTV and DVD player.
- 2. Connect a HDMI cable to the HDMI output of your DVD player and the other end to the **HDMI 1** or **2** jack on your HDTV.
- 3. Turn on the power to your HDTV and your DVD player.
- 4. Select **HDMI-1**, **HDMI-2**, or **HDMI SIDE** using the **INPUT** button on the remote control or side of the TV.

#### Note:

- The HDMI input on your HDTV supports High-bandwidth Digital Content Protection (HDCP).
   HDCP encrypts the transmission between the video source and the digital display for added security and protection.
- Refer to your DVD player user manual for more information about the video output requirements.

## **HDMI Connections for DVD Players with DVI**



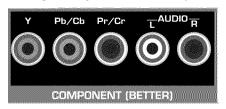


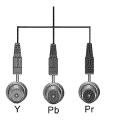


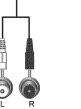


- 1. Turn off your HDTV and DVD player.
- Using a HDMI-DVI cable, connect the DVI end to your DVD player and the HDMI end to the HDMI 2 Jack on your HDTV.
- 3. Connect the audio cables (white and red) from the DVI audio output jacks on the DVD player to the **HDMI 2 L** and **R AUDIO** jacks on your HDTV.
- 4. Turn on the power to your HDTV and your DVD player.
- 5. Select **HDMI-2** using the **INPUT** button on the remote control or side of the TV.

# **Using Component Video (Better)**





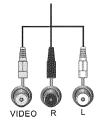


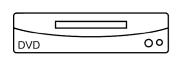


- 1. Turn off the power to your HDTV and DVD player.
- 2. Connect the component cable (green, blue, and red) from your DVD player to the **COMPONENT** jacks on your HDTV.
- Connect the audio cables (white and red) from your DVD player to the COMPONENT L and R AUDIO jacks on your HDTV.
- 4. Turn on the power to your HDTV and DVD player.
- 5. Select **COMP** using the **INPUT** button on the remote control or side of the TV.

## Using Composite (AV) Video (Good)







- 1. Turn off the power to your HDTV and DVD player.
- 2. Connect the Video cable (yellow) from your DVD player to the AV jack on your HDTV.
- Connect the audio cables (white and red) on your DVD player to the AV L and R AUDIO jacks on your HDTV.
- 4. Turn on the power to your HDTV and DVD Player.
- 5. Select **AV** using the **INPUT** button on the remote control or side of the TV.

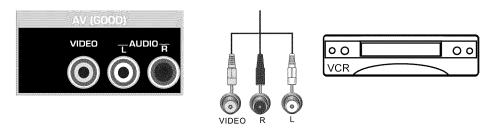
# Connecting Coaxial (RF)

# Using Your Antenna or Digital Cable for Standard or Digital TV



- 1. Turn off the power to your HDTV.
- 2. Connect the coaxial (RF) connector from your antenna or cable to the **DTV/TV CABLE/ANTENNA** connector on your HDTV.
- 3. Turn on the power to your HDTV.
- 4. Select **TV** using the **INPUT** button on the remote control or side of the TV.
- Search for new channels. See Auto Channel Scan on page 40 for more information on scanning for channels.

# Connecting Your VCR or Video Camera



**Note:** Refer to your VCR or Video Camera user manual for more information about the video output requirements of the product.

- 1. Turn off the power to your HDTV and VCR or video camera.
- 2. Connect the yellow AV cable from your VCR or video camera to the AV jack on your HDTV.
- Connect the audio cables on your VCR or video camera to the corresponding L and R AUDIO jacks on your HDTV.
- 4. Turn on the power to your HDTV and VCR or video camera.
- 5. Select **AV** using the **INPUT** button on the remote control or side of the TV.

# **Connecting a Home Theater System**

# **Using RCA**







- 1. Turn off the power to the HDTV and Receiver/Amp.
- Using an audio cable (white and red connectors), connect the cable to the audio input connectors on the Receiver/Amp and connect the other end to the AUDIO OUT audio connectors on the back of the HDTV.
- 3. Turn on the power to the HDTV and Receiver/Amp.
- 4. Press the **MENU** button on the remote control to open the On-Screen Display (OSD) menu.
- 5. Press ▼ on the remote control to highlight the Audio menu, and then press **OK** to select.
- 6. Press ▼ on the remote control to select **TV SPEAKERS**.
- 7. Press ▶ on the remote control to select **OFF** so the sound from the HDTV will be routed through your Receiver/Amp system.

#### Notes:

- Refer to your Receiver/Amp user manual to select the corresponding audio input.
- The audio output is not amplified and cannot be connected directly to external speakers.

# **Using Optical (S/PDIF)**





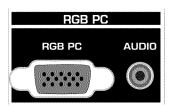


If your sound system has a S/PDIF (optical) digital audio input you can connect it from your sound system to the **OPTICAL** digital audio out on your HDTV. This is active when receiving audio with the programs being viewed no matter what input is being used.

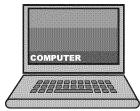
- 1. Connect one end of the optical cable to optical connectors on the home theater and the other end to the **OPTICAL** jack on your HDTV.
- 2. Turn on the power to your HDTV and home theater.
- 3. Change the input on your home theater to optical. See your home theater user manual for more information.



# Connecting a Computer Using RGB (VGA)







- 1. Set computer to a resolution supported by your HDTV (see *Preset PC Resolutions* on page 70). If your computer supports it, we recommend 1920x1080.
- 2. Turn off the power to your HDTV and computer.
- 3. Connect the RGB (VGA) cable from your computer to the RGB PC jack on of your HDTV.
- 4. Connect the 1/8-inch audio cable from your computer to the **RGB PC Audio** jack on your HDTV. This step is optional and only needed if you want to transmit audio from the computer through the TV.
- 5. Turn on the power to your HDTV and computer.
- 6. Select **RGB** (VGA) using the **INPUT** button on the remote control or side of the TV.

Note: Refer to your PC computer user manual for more information about the video output requirements.

## **Using HDMI**







- 1. Turn off your HDTV and computer.
- 2. Connect a HDMI cable to the HDMI output of your computer and the other end to the **HDMI 3** jack on your HDTV.
- 3. Connect the audio cables (white and red) from the audio output jacks on the computer to the **HDMI 2 L** and **R AUDIO** jacks on your HDTV.
- 4. Turn on the power to your HDTV and your computer.
- 5. Select **HDMI-2** using the **INPUT** button on the remote control or side of the TV.

# **Chapter 7 Viewing Pictures**

Connect a USB flash drive to the USB port on your HDTV to view pictures.

- USB drives that are USB 2.0 and FAT or FAT32 are supported. The USB Port does not support
  external hard drives or USB hubs.
- If your USB drive is oversized and does not physically fit in the USB port, use a USB extension cable. Connect one end of the cable to your USB drive and the other end to the USB port.
- Supported file extensions include .jpg and .jpeg.

**Note:** Even the supported format files listed above may or may not play properly or completely, depending on the USB device, bit rate stream, and other content characteristics, as well as other factors.

# **Viewing Pictures**

- 1. Insert a USB device with digital content containing photos into the USB port on the side of your HDTV. If a USB device is already connected, press **MENU** on the remote control and select *Media*. A message will appear asking if you want to play multimedia content.
- 2. Press ◀ or ▶ to highlight **OK**, and then press **OK** to select it. The *Picture* folder will be displayed.
- 3. Press **OK** to select it. A menu will be displayed showing the folders and files that are on your USB device.
- 4. Press ◀ or ▶ to highlight the folder or file you want to play, and then press **OK** to select it. The file will play. See *Adjusting Photo Settings* on page 31 below to adjust various settings including setting up a slideshow and setting picture duration.
- 5. When finished, press **MEDIA** once to return to the previous screen or repeatedly to return to the main menu.





# **Adjusting Photo Settings**

When viewing pictures you can adjust various settings, including slideshow, picture duration, etc.

- 1. Insert a USB device containing pictures and select the folder or files that you want to play.
- 2. Press MENU. The Picture menu will be displayed.
- 3. Press ▲ or ▼ on the remote control to highlight a Picture menu option, and then press ◀ or ► to adjust the setting.
- 4. Press **MENU** once to close the menu.

#### **Slideshow Mode**

Choose from **Shuffle**, **Single**, and **Sequence** to set the slideshow mode. Press **OK** to start and stop the slideshow.

- Single will display one picture selected from the thumbnails for the interval set in the *Duration* option and return to the thumbnails. If the *Repeat* option is set to **On**, the selected picture will be displayed until you press **EXIT**.
- **Sequence** will show your pictures in the order they are listed on your USB device until you stop the slideshow.
- Shuffle will show your pictures in random order until you stop the slideshow.

## Repeat

Choose from On or Off to repeat the slideshow.

## Sort By

You can choose to sort the pictures on the USB device by **Photo Date**, **File Date**, or alphabetically (**File A-Z**).

#### **Duration**

Set the amount of time the picture will remain on the screen during the slideshow. Choose a time between 5 seconds and 32 seconds.

#### Slideshow Effect

Choose from Random, Dissolve, Wipe Right, Wipe Left, Wipe Up, Wipe Down, Box In, or Box Out to set the transition type when changing from one picture to another during a slideshow.

### **Thumbnail Size**

Set the size of the preview pictures (thumbnails) in the menu. Choose from Small, Medium, or Large.

#### Info

When set to **On**, information about the picture briefly appears on your HDTV.



# **Chapter 8 Adjusting Your HDTV Settings**

# Using the On-screen Display (OSD)

The remote control or the control buttons on the side of the TV can control all the function settings. The *OSD* allows you to adjust contrast, brightness and other settings. The TV will save changes made to the settings, even if the TV is turned off.

The OSD consists of several menu options. The main menu options may vary depending on your selected input source.

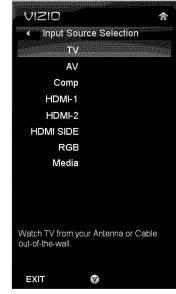
**Note:** Some of the main menu options may have additional submenus, for example, the TV Rating submenu for Parental Controls.

- 1. Press **MENU**. The *OSD* opens.
- 2. Press ◀, ▶, ▲, or ▼ on the remote control to select one of the menu options:
  - Input
  - Wide
  - CC
  - Sleep Timer
  - Picture
  - PIP
  - Settings
  - Media
  - Help
- 3. Press **OK** to select the option or feature you want to adjust.
- 4. After the menu option is displayed, press ▲ or ▼ on the remote control to select one of the items to adjust.
- 5. Press **OK** to select it, and then press **◄**, **▶**, **▲**, or **▼** to adjust the selection.
- 6. Press **BACK** once to return to the previous screen. To return to your program once adjustments have been completed, you can do one of the following:
  - a. Press the **EXIT** button on the remote control.

# **Input Menu**

Select the Input Source for your HDTV. Choose from TV, AV, Comp, HDMI-1, HDMI-2, HDMI SIDE, RGB, and Media.



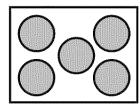


## Wide Menu

Select how the picture displays on the screen. As you select an option, you will see the screen adjusting to the different sizes. The options vary depending on the selected input and the TV program:

#### Normal

The original 4:3 aspect ratio (1.33:1 source) is preserved, so black bars are added to the left and right of the display image. Standard TV broadcasts are displayed with a 4:3 Aspect Ratio. Movies in 4:3 Aspect Ratio may be referred to as pan-and-scan or full frame. These movies were originally filmed in 16:9 (widescreen), and then modified to fit a traditional TV screen (4:3).



#### Wide

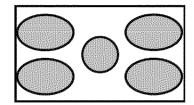
Wide mode allows you to view the entire picture. This is recommended for HDMI and RGB (Computer) viewing so you can see the complete picture without the image overstretching beyond the viewing area. For 720p, 1080i, 1080p only.

#### Zoom

Zoom mode will "zoom in" to the center of the image, allowing 4:3 images to be viewed in original aspect ratio without stretching the black bars. The top and the bottom of the image are cropped out, though.

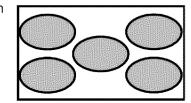
## **Panoramic**

When watching a standard broadcast or full frame movie in this mode, the 4:3 Aspect Ratio (1.33:1 source) display image is stretched horizontally on the left and right sides to fill the TV screen. The center of the image is not stretched.



#### Stretch

When watching a widescreen program (1.78:1 source) with black bars on the sides, the display image will stretch to fill the TV screen. People will appear wider than they really are. If you are watching a widescreen (1.85:1 or 2.35:1 source) program or movie, there will still be black bars at the top and bottom. This mode is available only when watching a widescreen program.



# CC (Closed Caption) Menu

Adjust closed caption options.

## **Analog Closed Caption**

The CC feature is available when watching regular analog TV. Select from **Off**, **CC1**, **CC2**, **CC3**, and **CC4**. Closed Caption for regular TV is usually **CC1** or **CC2**.

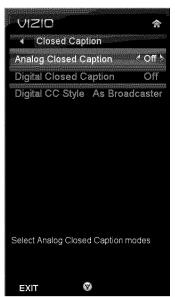
# **Digital Closed Caption**

The CC feature is available when watching digital TV. Select from CC1, CC2, CC3, CC4, or CS1, CS2, CS3, CS4, CS5, CS6, or Off.

## **Digital CC Style**

The Digital CC Style feature is available when watching digital TV.

- Caption Style: Select either As Broadcaster or Custom. If Custom is selected you can customize the way Closed Caption is displayed. The options available are:
- Text Size: Make CC text larger or smaller.
- Color: Choose a text color for CC display
- Opacity: Make text more or less transparent.
- BG Color: Choose a background color for CC text.
- BG Opacity: Make the background for CC text more or less transparent.
- Window Color: Choose a text frame color for CC text.
- Window Opacity: Make the text frame for CC text more or less transparent.



# **Sleep Timer Menu**

Select the timer to turn off the TV in 30, 60, 90, 120 or 180 minutes.

#### Picture Menu

Adjust picture options including brightness, contrast, and advanced picture settings.

#### **Picture Mode**

Choose from Standard, Movie, Game, Vivid, Football, Golf, Basketball, or Custom. Each input (i.e. HDMI, COMP, etc) remembers the custom setting you created. Select Custom to manually adjust Backlight, Brightness, Contrast, Color, Tint, Sharpness, and to access the More menu where further adjustments can be made.

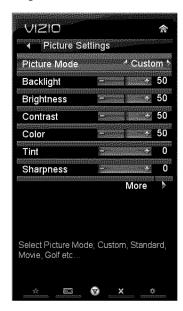
#### **Backlight**

Adjust the brightness to affect the overall brilliance of the picture not the Brightness (black level) or Contrast (white level) of the picture.

#### **Brightness**

Adjust black levels in the picture. If the brightness is too low you will not be able to see the detail in darker parts of the picture and if the brightness is too high the picture will look washed out.

**Note:** Brightness is only available when *Picture Mode* is set to **Custom**.



#### Contrast

Adjust the white levels in the picture. If the contrast is too low the picture will look washed out and if the contrast is too high you will not be able to see any detail in the bright parts of a picture.

Note: Contrast is only available when Picture Mode is set to Custom.

#### Color

Adjust the amount of color in the picture.

**Note:** Color is only available when *Picture Mode* is set to **Custom**.

#### **Tint**

Adjust the hue of the picture. The easiest way to set tint is to look at flesh tones and adjust for a realistic appearance. In most cases, the default middle position is correct. If people's faces look too orange try reducing the level of color first.

**Note:** Tint is only available when *Picture Mode* is set to **Custom**.

## **Sharpness**

Adjust the sharpness of the edges of elements in the picture. It does not produce detail that otherwise does not exist. This adjustment is helpful when viewing Standard Definition sources.

Note: Sharpness is only available when Picture Mode is set to Custom.

#### More

Select **More** to adjust advanced options for fine tuning the picture.

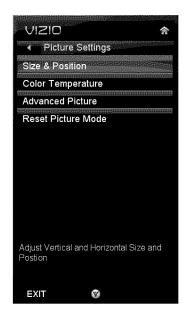
**Note:** The *More* menu is only available when *Picture Mode* is set to **Custom**.

#### Size & Position

To select the options in the Size & Position sub-menu, press **OK**. A new menu will be displayed showing the following Size & Position settings:

- Horiz. Position
  - Adjust the horizontal position of the picture.
- Vertical Position
  - Adjust the vertical position of the picture.
- Horizontal Size
  - Adjust the horizontal size of the picture.
- Vertical Size
  - Adjust the vertical size of the picture.

**Note:** The Size & Position function is only available in HDMI, Component, or RGB modes.



## **Color Temperature**

Color Temperature is the "warmness" or "coolness" of the white areas of the picture. Choose from **Custom**, **Cool**, **Normal**, or **Computer**. **Normal** is the setting for television broadcasting. **Custom** allows you to set a preset calibrated for a white point to suit individual preferences. **Cool** produces a blue-hued image. **Computer** sets the white point at the established setting for a computer display (9300K). Each preset may also be adjusted for a customized setting.

#### **Advanced Picture**

To select the options in the Advanced Picture sub-menu, press **OK**. A new menu will be displayed showing the advanced functions available for fine tuning of the picture.

#### Smooth Motion Effect

The Smooth Motion<sup>TM</sup> Effect option activates Motion Estimation/Motion Compensation (ME/MC), which suppresses motion judder, or "stuttering" of the image when the camera pans across a scene, or there is horizontal motion in the scene. Choose from **Off**, **Low**, **Middle**, or **High**.

#### Real Cinema Mode

The Real Cinema Mode option allows selection of the type of compensation used for the Smooth Motion<sup>TM</sup> Effect option. Choose from **Off**, **Precision** and **Smooth**.

#### Noise Reduction

This feature diminishes picture artifacts caused by the digitizing of image motion content that may be present in the picture. Choose from **Off**, **Low**, **Medium**, or **High**.

#### MPEG NR

Reduces white areas between color boundaries. Choose from **Off**, **Low**, **Medium** or **Strong**.

#### • Color Enhancement

This feature increases the picture reproduction performance of the picture by reducing oversaturation of certain colors and improving flesh tones. Choose from **Off**, **Normal**, **Rich Color**, **Grn/Flesh**, and **Grn/Blue**.

## Adaptive Luma

Large areas of brightness in the picture will result in a higher Average Picture Level (APL) and the overall picture will look too light. This feature will lower the APL to counteract this effect. Choose from **Off**, **Low**, **Medium**, **Strong**, or **Extend**.

#### Film Mode

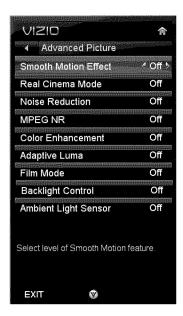
Choose from **Off** or **Auto**. When set to **Off** it will stay at 60 fps. When set to **Auto**, the TV will detect the cadence (for example at 24 frames/second for film, or normal video at 60 fps).

## • Backlight Control

Set this feature to **OFF**, **DCR**, or **OPC**. **DCR** (Dynamic Contrast Ratio) improves the black level performance and increases contrast ratio. **OPC** (Optimum Power Control) Reduces power consumption while maintaining the same picture brightness.

## • Ambient Light Sensor

Choose **Off, Low, Medium,** or **High**. When set to **Low, Medium,** or **High**, your HDTV will automatically adjust to light changes in the room.



#### **Reset Picture Mode**

Return all Picture settings to factory default. A screen will come up to confirm your selection or to cancel it. Press ◀ or ▶ to make the selection, and then press **OK** to accept it.

Note: Only settings under the Picture will be reset.

#### PIP Menu

Your TV features PIP mode so you can watch two pictures at the same time. One picture is displayed as the full screen (main screen) and the other picture is displayed in a small window (sub screen).

Note: PIP is only available when the Rating Enable option in Parental Controls is set to Off.

#### **PIP Mode**

Select from **Off**, **PIP** (Picture-inside-picture) or **POP** (Picture-outside-picture). In **PIP** mode a smaller subscreen is displayed on top of the main screen. In **POP** mode the main screen and sub-screen are of equal size and are positioned side-by-side.

#### Source

Select the input source for the sub-screen. The input sources available will vary according to which input is used for the main screen.

"~" - Indicates which inputs are available for PIP and POP modes.

SUB	TV	AV (Composite)	Component	HDMI-1 HDMI-2 HDMI SIDE	RGB (Computer)
TV			4		77
AV (Composite)			<b>V</b>		<b>V</b>
Component				- Z	
HDMI-1					
HDMI-2					
HDMI Side					
RGB (Computer)	×	202:101000269330			

#### **Position**

Select where you want the PIP screen positioned over the main screen. Choose from **Top Left**, **Top Right**, **Bottom Left**, and **Bottom Right**.

#### Size

Set the size of the PIP window. Choose from Small, Medium or Large.

#### **Audio**

Select which source will play the audio. Choose from the Main screen or the PIP (sub) screen.

# **Settings Menu**

Adjust various options including audio settings, scanning for channels, parental controls, date and time, and more.

#### **Audio Menu**

Adjust audio options including balance, equalizer, and advanced audio settings.

#### **Audio Mode**

Choose from Flat, Rock, Pop, Classic or Jazz.

#### **Balance**

Adjust the sound to the left or the right.

#### Lip Sync

Lip Sync is designed to adjust the audio of the program being viewed so that it matches the movement of the lips of someone talking on the screen.

### **TV Speakers**

Turn the internal speakers On or Off. You may want to turn the internal speakers off when listening to the audio through your Home Theater System.





#### **Advanced Audio**

To select the options in the Advanced Audio sub-menu, press **OK**. A new menu will be displayed showing the advanced functions available for fine tuning of the audio.

#### SRS TruSurround HD

When watching TV or a movie, TruSurround HD™ creates an immersive surround sound experience from only two speakers and provides rich bass, clear dialog and high frequency detail. **Note:** When SRS TruSurround HD is ON, Equalizer adjustments are not available.

#### SRS TruVolume

When the programming switches to a commercial or when changing from channel to channel, volume fluctuations occur. When turned ON, SRS TruVolume™ provides the listener with a comfortable and consistent volume level. Turn this option off when listening to music.

#### • Digital Audio Out

This option allows selection of the type of processing for the S/PDIF (Optical connector) when used with a Receiver/Amplifier/Home Theater system. Select to choose from OFF, Dolby Digital or PCM.

#### Analog Audio Out

This option sets the volume control properties when using the RCA (white and red) connectors as audio line out to connect a Receiver/Amplifier/Home Theater system. Choose from Fixed or Variable. When set to Variable, volume from the external speakers will change according to the volume setting on the TV. If it is set to Fixed, the volume can only be changed by the settings on the external stereo system.

#### **Equalizer Settings**

To select the options in the Equalizer Settings sub-menu, press **OK**. A new menu will be displayed showing the available equalizer functions. Press ◀ or ▶ to select *Basic* or *Advanced*.

#### EQ Mode (Basic)

Adjust Bass and Treble.

#### EQ Mode (Advanced)

Adjust volumes of different frequencies.

Starting from lowest to the highest, they are 120 Hz, 500Hz, 1.5 kHz, 5 kHz and 10 kHz.

- Use ▲ or ▼ to adjust the selected frequency to your preference. Values above 0



will boost the frequency and values below 0 will attenuate the frequency.

Note: The Equalizer adjustment will only be available when SRS TSHD is set to Off.



#### **Reset Audio Mode**

Return all Audio settings to factory default. A screen will come up to confirm your selection or to cancel it. Press ◀ or ▶ to make the selection, and then press OK to accept it.

Note: Only settings under the Audio menu will be reset.

#### Tuner

Note: The tuner option can only be selected when your HDTV is in TV input mode.

#### **Tuner Mode**

Select Cable or Antenna depending upon which you have attached to the DTV / TV Input.

#### **Auto Channel Scan**

Automatically search for TV channels that are available in your area. Be sure to first select the correct tuner mode above. The TV will search for analog and digital channels. When the search is done, press **OK** to begin watching your programs.

#### **Partial Channel Search**

If you believe channels are missed from the auto search, you can do a partial channel search to look for channel in a certain channel range again. Select to scan for Analog, Digital, or both Analog/Digital channels, then press ▼ to highlight the "From" and "To" selection. Press ► to select the range of channel numbers you want to start searching in. Press **OK** to start channel search.

#### **Add Analog Channel**

If your are in fringe/marginal reception areas or you want to receive local broadcasts where *Auto Channel Search* may not pick up the signals you can manually add channels. Press **OK** and a new menu will open. Enter the channel number, press ▼ to select *Add Channel*, and then press **OK** to add the channel.

#### Skip Channel

After the TV has stored all of the available digital channels in memory you will find that some channels are too weak to watch comfortably or they may be channels you do not want to see. Press OK to select the channel to be skipped when using the CH ▲ or CH ▼ button. An X will appear in channels you have selected to skip. You will still be able to select this channel using the number buttons on the remote control.

#### **Analog MTS**

This feature allows you to select the different languages the broadcaster is transmitting the audio with the program you are watching. This signal is usually Spanish. Choose from **Mono**, **Stereo**, or **SAP**.





#### Name Input

This feature makes it easier for you to recognize the devices you have connected to your HDTV when you press **INPUT**. For example, if you have a Blu-Ray DVD player connected to the HDMI-1 input, you can have the input label read *HDMI-1 BluRay* instead of just *HDMI-1*. You can select from 10 preset labels.

#### To use one of the 10 preset labels:

- Select Input Source, and then press OK to show the list of inputs.
- 2. Press ▼ to select the input label you want to change, and then press **OK**.
- 3. Press ▼ to select *Input Labels*, and then press **OK** to show the list of 10 preset labels.
- 4. Press ▼ to select the new input label name, and then press **OK**.



#### **Parental Controls**

If you want to restrict certain channel and program viewing, you can do this by turning on the Parental Control. Selected programs, movies and channels can then be made available only after an authorized password has been entered and accepted by the TV.

To select the options in the Parental sub-menu, press **OK** and then create and/or enter a password. A new menu will be displayed showing the following Parental settings:

**Note:** The Parental menu does not appear when the input mode is set to HDMI or RGB.

#### Rating Enable

This feature does not operate on this TV.

#### **Channel Locks**

Block individual channels from being displayed.



#### **USA-TV**

Note: When Rating Enable is OFF, the USA-TV Rating adjustments are not available.

Press **OK** to block (locked) or allow (unlocked) channels by the following US TV ratings:

TV-Y - All children

TV-Y7 - Older children

TV-G - General audience

TV-PG - Guidance suggested

TV-14 - Strongly cautioned

TV-MA - Mature audience

You can also customize the TV ratings for the following content:

A – All sub-ratings

FV - Fantasy violence

D - Sexual dialog

L - Adult language

S - Sexual situations

V - Violence



**Note:** When Rating Enable is **OFF**, USA-Movie Rating adjustments are not available.

Press the **OK** button to block (locked) or allow (unlocked) channels by the following US Movie ratings:

G - General audience

PG - Parental guidance suggested

PG-13 – Recommended for children 13 years of age or older

R - Mature audience

NC-17 - No one under 17 years of age

X - No one under 17 years of age

#### **CAN-English**

**Note:** When Rating Enable is **OFF**, Canadian English Rating adjustments are not available.

Press the **OK** button to block (locked) or allow (unlocked) channels by the following Canadian English ratings:

C - Children

C8+ - Children 8 years or older

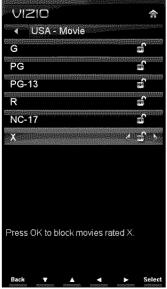
G - General Programming, suitable for all audiences

PG - Parental guidance

14+ - Viewers 14 years or older

18+ - Adult programming





#### **CAN-French**

Note: When Rating Enable is OFF, Canadian French Rating adjustments are not available.

Press the **OK** button to block (locked) or allow (unlocked) channels by the following Canadian French ratings:

G - General audience

8 ans+ - General - not recommended for young children

13 ans+ - Not suitable for children under 13 years of age

16 ans+ - Not suitable for under 16 years of age

18 ans+ - Adults only

#### **Alt Rating Region**

This is reserved for future use in the event the parental control system is ever updated. Your HDTV will be able to receive and update the new rating system to it.

#### **Block Unrated TV**

Block programming that does not have a rating.

#### Change PIN (Password)

Enter a new, 4-digit password using the number buttons on the remote control. Enter it a second time to confirm you entered it correctly.

**Note:** Make sure you write down and store the new password in a secure place. The *Reset Locks* feature does NOT reset the password.

# 

#### **RESET LOCKS**

Return all Parental Control lock settings to factory default. A screen will come up to confirm your selection or to cancel it. Press ◀ or ▶ to make the selection, and then press **OK** to accept it.



#### Menu Language

Select to change the language of the menu. The default is **English**. You can also select **French** or **Spanish**.

#### **Time & Local Settings**

#### **Time Zone**

Setting the correct Time Zone for your area will ensure that the correct time is shown after pressing the **GUIDE** button on the remote control.

#### **Daylight Saving**

Setting the daylight saving time for your area will ensure that the correct time is shown after pressing the **GUIDE** button on the remote control.

#### **CEC**

Consumer Electronics Control allows you to control other devices using your HDTV remote control when those devices are connected via HDMI. For example, if a CEC-supported Blu-ray DVD player is connected to your HDTV through HDMI-2 and that player is powered on, your HDTV will automatically

change to the HDMI-2 input. Similarly, if your HDTV is powered on first and your change the input to HDMI-2, your Blu-ray player will automatically power on.

Also, you can control your CEC-supported device using the transport keys on your HDTV remote control (e.g. Play, Stop, Prev, etc.). When you press one of the buttons on your HDTV, the action will occur on your device.

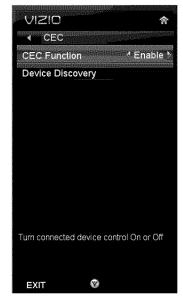
Contact your devices' user manual or manufacturer to check whether your device supports CEC.

#### **CEC Function**

Turn CEC On or Off. When set to Off, your HDTV will not send or receive any CEC commands.

#### **Device Discovery**

Register device with TV. Before CEC will work, perform a Device Discovery to see if there are any CEC supported devices connected to your HDTV.



#### Media Menu

When viewing pictures you can adjust various settings, including slideshow, picture duration, etc.

- 1. Insert a USB device containing pictures and select the folder or files that you want to play.
- 2. Press **MENU**. The Picture menu will be displayed.
- 3. Press ▲ or ▼ on the remote control to highlight a Picture menu option, and then press ◄ or ► to adjust the setting.
- 4. Press **MENU** once to close the menu.

#### **Slideshow Mode**

Choose from **Shuffle**, **Single**, and **Sequence** to set the slideshow mode. Press **OK** to begin the slideshow. Press **EXIT** to stop the slideshow.

- Single will display one picture selected from the thumbnails for the interval set in the *Duration* option and return to the thumbnails. If the *Repeat* option is set to **On**, the selected picture will be displayed until you press **EXIT**.
- Sequence will show your pictures in the order they are listed on your USB device until you stop the slideshow.
- Shuffle will show your pictures in random order until you stop the slideshow.

#### Repeat

Choose from On or Off to repeat the slideshow.

#### Sort By

You can choose to sort the pictures on the USB device by **Photo Date**, **File Date**, or alphabetically (**File A-Z**).



#### Duration

Set the amount of time the picture will remain on the screen during the slideshow. Choose a time between 5 seconds and 32 seconds.

#### Slideshow Effect

Choose from Random, Dissolve, Wipe Right, Wipe Left, Wipe Up, Wipe Down, Box In, or Box Out to set the transition type when changing from one picture to another during a slideshow.

#### **Thumbnail Size**

Set the size of the preview pictures (thumbnails) in the menu. Choose from Small, Medium, or Large.

#### Info

When set to **On**, information about the picture briefly appears on your HDTV.

### Help Menu

#### System Info

Display the technical information including model name, version and revision of firmware, source type, and resolution.

#### **Reset TV Settings**

Return all Picture and Audio settings to factory default. A screen will come up to confirm your selection or to cancel it. Press Left or Right Navigation buttons to make the selection, and then press **OK** to accept it.

Note: This does NOT reset the Parental Control Password.

#### Clear Memory (Factory Default)

Use this function to reset the TV to the default factory settings. The screen will display a message to confirm that you want to reset the values to factory settings. Press ◀ or ▶ to make the selection, and then press OK to accept it.

Note: This does NOT reset the Parental Control Password.

#### Start Setup Wizard

Use this function to return to the Initial Setup menu. Use this function if you want to have a guided setup when you move your TV.

Note: Previously scanned channels will be removed.



# **Chapter 9 Programming the VIZIO Universal Remote Control**

Program your E470VL and E550VL remote control to work with other devices.

#### Using a Cable or Satellite Box Remote

Your VIZIO remote uses codes 000, 047, 050, 067, 329, 331 and 339 to work your HDTV. To use a cable or satellite remote to work the HDTV, refer to your cable or satellite remote user guide for more information on how to program the remote.

If your cable or satellite remote uses a 5-digit code (like most Direct TV units), first try 11758 and then, if that does not work, 10178. If your cable or satellite remote uses a 4-digit code, try 1758 and then 0178 as an alternative. If your cable or satellite remote uses a 3-digit code (Echostar or Dish Network for example), use code 627.

**Note:** Some buttons may not function as expected on your cable or satellite remote. Typically power, volume and mute will work.

#### **Programming other devices**

Your remote control is programmable and supports up to three different devices. Listed below are the steps for programming your DVD player, Home Theater System, and a Cable or Satellite box. After you find your codes, write them in the table provided.

#### Notes:

- If the codes do not work or your brand is not listed, see "Searching for Component Codes."
- Sometimes a code listed will only include limited functions. Try other codes that may include more functionality.

#### Programming your Blu-Ray or DVD Player

- 1. Turn on the DVD player.
- 2. Press and release the **DVD** button on your VIZIO universal remote control.
- 3. Press and hold the SET button until the LED flashes twice.
- 4. Find the programming code for your DVD player in the code list below and enter it using the number buttons. If the code is accepted, the LED flashes twice after the last digit is entered. If the LED does not flash twice, repeat Steps 2 through 4 with the next code listed.
- 5. Point the remote control at the DVD player and press **POWER**. The DVD player will turn off. If the DVD player does not turn off, repeat Steps 2 through 4 with the next code listed for the component and manufacturer.

### **Programming your Home Theater System**

- 1. Turn on the home theater system.
- 2. Press and release the **AUDIO** button on your VIZIO universal remote control.
- 3. Press and hold the SET button until the LED flashes twice.
- 4. Find the programming code for your home theater system and enter it using the number buttons. If the code is accepted, the LED flashes twice after the last digit is entered. If the LED does not flash twice, repeat Steps 2 through 4 with the next code listed.
- 5. Point the remote control at the Home Theater System and press **POWER**. The Home Theater System will turn off. If the Home Theater System does not turn off, repeat Steps 2 through 4 with the next code listed for the component and manufacturer.

#### **Programming your Cable or Satellite Set-Top Box**

- 1. Turn on the Cable or Satellite Set-Top Box.
- 2. Press and release the CABLE button on your VIZIO universal remote control.
- 3. Press and hold the **SET** button until the LED flashes twice.
- 4. Find the programming code for your Cable or Satellite Set-Top Box and enter it using the number buttons. If the code is accepted, the LED flashes twice after the last digit is entered. If the LED does not flash twice, repeat Steps 2 through 4 with the next code listed.
- 5. Point the remote control at the Cable or Satellite Set-Top Box and press POWER. The Cable or Satellite Set-Top Box will turn off. If the Cable or Satellite Set-Top Box does not turn off, repeat Steps 2 through 4 with the next code listed for the component and manufacturer.

	My Codes
DVD Player	
Home Theater	
Cable Box	
Satellite Box	
VCR	
Other	
Other	
Other	

#### **Searching for Device Codes**

If you cannot find the manufacturer in the list or the program code does not work, you can use the remote control to search for the correct device code.

- 1. Turn on the device.
- 2. Press the matching device button on your VIZIO universal remote control.
- 3. Press and hold **SET** until the LED flashes twice.
- 4. Press 9 9 1. The LED flashes twice.
- 5. Point the remote control at the device and then press and hold **POWER** until the device turns off.

#### **Reset Remote to Factory Settings**

- 1. Press and hold **SET** until the LED flashes twice.
- 2. Press 9 1 9 1 9. The LED flashes twice.

#### **Remote Control Codes**

#### **Television Codes**

#### (Including TV/DVD, TV/VCR, and TV/DVD/VCR)

3M 10195, 888, 10462 A.R. Systems 10352 Abex 10065, 10256

ACE 10449 Acer 10164

Addison 10048, 10231 Admiral: 10045, 10078, 10232,

10236

Advent 10221, 10291 Adventura 10066, 10261 Aiko 10053, 10231

Aim 10353

Aiwa 10178, 10207 Akai 10027, 10046, 10127, 10153, 10196, 10229, 10238, 10240, 10254, 10267, 10304,

10353

Akiba 10353 Akito 10348, 10353 Akura 10277, 10353

Alaron 10246, 10273, 10275

Alba 10353

Albatron 10219, 10222, 10286

Alfide 10240 Alleron 10055 Allstar 10353 A-Mark 10248

America Action 10234 Ampro 10220, 10289 Amstrad 10279, 10353

Amtron 10054 Anam 10234

Anam National 10054, 10264

Anhua 10455 Anitech 10353

AOC 10047, 10048, 10049, 10112, 10229, 10248, 10252, 10254, 10263, 10274, 10316

Aolinpiya 10462 Aolinpu 10465

Apex 10075, 10095, 10233

Apex Digital 10288 Archer 10248 Archos 10156 Ardem 10353 Aristona 10353 Asberg 10353 Astar 10163

Atlantic 10353

Audinac 10234, 10278 Audiosonic 10352, 10353 Audiovox 10054, 10099, 10231, 10234, 10248, 10280, 10287,

10326

Aventura 10042 Awa 10048, 10351 Axion 10154, 10326 Baihehua 10461 Baihua 10460, 10462 Baile 10458, 10460 Bang & Olufsen 10244 BaoHuaShi 10462

Barco 10282

Basic Line 10352, 10353 Baur 10249, 10281, 10353

Baosheng 10457, 10460

Baysonic 10234

Beijing 10358, 10360, 10362, 10364, 10365, 10366, 10367, 10368, 10369, 10370, 10371, 10372, 10373, 10374, 10376, 10377, 10378, 10379, 10380, 10383, 10384, 10385, 10392, 10394, 10428, 10431, 10448, 10457, 10458, 10460, 10461,

10462

Belcor 10047, 10252 Bell & Howell 10045

Beng 10116, 10159, 10226,

10300 Beon 10353

Bestar 10352, 10353 Bestar-Daewoo 10352 Blaupunkt 10281

Blue Sky 10282, 10353

Boots 10348 Boxlight 10290 BPL 10275, 10353 Bradford 10054, 10234

Brillian 10160 Brinkmann 10353

Brockwood 10047, 10252 Broksonic 10078, 10234, 10236,

10248

Bush 10348, 10352, 10353

byd:sign 10214

Caihong 10360, 10362, 10368,

10457, 10460 Cailing 10464

Caixing 10366, 10367, 10378,

10380, 10390, 10461

Candle 10047, 10049, 10050, 10066, 10229, 10254, 10261,

10265

Carena 10353

Carnivale 10229, 10254 Carver 10034, 10044, 10271

Cascade 10353 Casio 10353 Cathay 10353 Caton 10355

CCE 10246, 10258, 10353

Celebrity 10046 Celera 10075

Centurion 10051, 10353 Changcheng 10357, 10360, 10362, 10363, 10364, 10366, 10367, 10368, 10369, 10370, 10371, 10372, 10373, 10374, 10376, 10378, 10379, 10380, 10384, 10385, 10392, 10448, 10455, 10457, 10458, 10460,

10461, 10462

Changfei 10360, 10362, 10368, 10379, 10457, 10460, 10467 Changfeng 10360, 10367, 10376, 10381, 10382, 10384, 10385,

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TS 40115

Time Warner 40004

Tusa 40043, 40108 TV86 40048

US Electronics 40105

Unika 40036, 40037, 40038

United Artists 40126 United Cable 40053

Universal 40036, 40037, 40038,

40125 V2 40112 Videotron 40122

View Star 40041, 40046, 40048

Viewmaster 40112 ViewStar 40128 Vision 40112 Vortex View 40112

Zenith 40052, 40068, 40107,

40113 Zentek 4011

# Satellite Receiver Codes (Including Sat / PVR Boxes)

AccessHD 40096 Alpha Digital 40096 AlphaStar 40064

Artec 40092

Apex Digital 40103

CaptiveWorks 40088
Channel Master 40097
Chaparral 40056
Coolsat 40089
Coship 40093
Crossdigital 40146
Digital Stream 40102

DirecTV 40014, 40015, 40016, 40017, 40018, 40019, 40020, 40023, 40024, 40025, 40028, 40029, 40054, 40055, 40077, 40078, 40079, 40135, 40136,

40138, 40141

Dish Network System 40008, 40009, 40010, 40011, 40021, 40137, 40139, 40144

Dishpro 40137, 40139, 40144

Drake 40057

Echostar 40008, 40021, 40137,

40139, 40144, 40145

Expressvu 40139, 40144, 40145

GE 40012, 40013, 40098 General Instrument 40058,

40142 GOI 40144 Goodmind 40098 Hisense 40143 Hitachi 40029, 40065

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HTS 40144

Hughes Network Systems 40016, 40018, 40019, 40023, 40025,

40054, 40135 Humax 40090 Ilo 40143 Insignia 40082 Jerrold 40142

JVC 40008, 40021, 40144

Lasonic 40099 LG 40082

Magnavox 40028, 40094

Memorex 40028 MicroGem 40100 Mitsubishi 40023, 40085

Motorola 40140, 40142

Next Level 40142

Panasonic 40017, 40083

Pansat 40086 Paysat 40028 PCT 40097 Philco 40094

Philips 40016, 40023, 40025, 40027, 40028, 40079, 40135

Pioneer 40016 Primestar 40063

Proscan 40012, 40013, 40138

Proton 40143 RadioShack 40142

RCA 40012, 40013, 40014, 40025, 40055, 40073, 40075, 40077, 40078, 40080, 40091

Realistic 40059

Samsung 40016, 40018, 40024,

40025, 40026, 40081

Sharp 40084 Sonicview 40101

Sony 40015, 40022, 40074,

40076, 40136

Star Choice 40140, 40142

STS 40066 STS1 40060 STS3 40061 STS4 40062 Tivax 40096 Tivo 40016, 40025 Toshiba 40019 UltimateTV 40136 Uniden 40028

US Digital 40143

Viewsat 40087 Voom 40142 Winegard 40104 Zenith 40020, 40082 Zentech 40095

**PVR Codes** 

ABS 20410 Alienware 20410 AT&T 20245

Bang & Olufsen 20412 CyberPower 20410

Dell 20410

DirecTV 20238, 20240, 20241, 20243, 20405, 20406, 20409,

20411

Dish Network 20408 Dishpro 20408 Echostar 20408 Expressvu 20408 Gateway 20410 GOI 20408

Hewlett Packard 20410 Howard Computers 20410

HTS 20408

Hughes Network Systems 20240, 20238, 20241, 20243, 20407

Humax 20238 Hush 20410 iBUYPOWER 2

iBUYPOWER 20410 JVC 20238, 20408 Linksys 20410

Media Center PC 20410

Microsoft 20410 Mind 20410

Niveus Media 20410 Northgate 20410 Panasonic 20245

Philips 20238, 20240, 20241, 20242, 20243, 20407

RCA 20238, 20243, 20407,

20409, 20411 ReplayTV 20244

Samsung 20241, 20243, 20407

Sonic Blue 20244 Sony 20239, 20410 Stack 20410 Systemax 20410

Tagar Systems 20410

Tivo 20238, 20239, 20240,

20242, 20243
Toshiba 20410
Touch 20410
UltimateTV 20411
Viewsonic 20410
Voodoo 20410
ZT Group 20410

Blu-Ray DVD Player Codes Denon 20143, 20144

Insignia 20142 LG 20132

Marantz 20145, 20146

Panasonic 20128, 20129, 20130,

20197, 20198

Pioneer 20134, 20147 Samsung 20015, 20125 Sharp 20139, 20140, 20141

Sony 20005 Vizio 22000

**DVD Player Codes** 

Accele Vision 20137 Accurian 20311 Advent 20288 Aiko 20348 Aiwa 20207

Akai 20161, 20282, 20317

Akishi 20349 Akustic 20348 Alco 20286 Allegro 20306 Alpine 20152

Amphion Media Works 20151,

20330 AMW 20151 Anam 20392 Aodeiong 20358

Apex 20024, 20025, 20026, 20027, 20085, 20111, 20300,

20301 Apple 20189 Arrgo 20307

Aspire 20209, 20290

Astar 20181 ATLM 20369

Audiovox 20106, 20116, 20286

Axion 20162

Bang & Olufsen 20302 Blaupunkt 20136, 20301 Blue Parade 20298

Bose 20076, 20086, 20393,

20394

BOSS 20138

**Boston Acoustics 20331** 

Brand 20383

Broksonic 20007, 20282

Caixing 20389

California Audio Labs 20284

Cambridge Sound Works 20203

Caravell 20362 CAVS 20210

Changhong 20285, 20345 CineVision 20114, 20306

Clarion 20154 Classic 20131

Coby 20087, 20095, 20123,

20289

Conic 20370 Curtis 20095

Curtis Mathes 20308

CyberHome 20028, 20070, 20307, 20323, 20326

Cytron 20160

Daewoo 20093, 20306, 20317

Dayu 20388 DCS 20363 Denca 20367

Denon 20108, 20115, 20143,

20144, 20284 Desay 20185

Diamond Vision 20237

Dihe 20338 Ding Tian 20342 Disney 20090, 20096

Dual 20172
Durabrand 20309
DVD2000 20295
Dynex 20193
Eclipse 20126
Electrohome 20395

Emerson 20041, 20135, 20283,

20303, 20310 Enterprise 20303 ESA 20182, 20310 Fisher 20168, 20304 Funai 20310

GE 20082, 20296, 20301

Gewang 20361

Gateway 20327

GFM 20149

Giec 20355

Go Video 20306, 20327, 20396

GoldStar 20167 GPX 20112

Gradiente 20158, 20284

Greenhill 20301 Grundig 20297 Haier 20165, 20340

Haitai 20364 Haoji 20384

Harman/Kardon 20124, 20305

Hisense 20344 Hitachi 20013, 20232 Hiteker 20300 Huabao 20375 Huabaojamo 20334

iLive 20205 Ilo 20159 iLuv 20174

Initial 20159, 20301

Insignia 20142, 20150, 20164,

20202, 20310

Integra 20285, 20298 iSymphony 20190 Jamo 20206 JBL 20104, 20305

Jensen 20171, 20289, 20397

Jieke 20390

Jingewangpai 20375 Jingwei 20336 Jinwang 20377 Jugao 20359

JVC 20029, 20030, 20031, 20032, 20033, 20034, 20035, 20036, 20037, 20098, 20119,

20195, 20299 Jwin 20169, 20219 Kawasaki 20286 KEF 20398 Kennood 20386

Kenwood 20122, 20284 Ketai 20376 KLH 20286, 20301 Klipsch 20332 Konka 20316

Koss 20101, 20199, 20292

Lafayette 20351 Landel 20312 Lasonic 20155, 20220, 20399

Legend-V 20365 Lenoxx 20291, 20309

LG 20091, 20100, 20117, 20132,

20180, 20303, 20306 Linshuma 20378 Liquid Video 20292

LiteOn 20102, 20235, 20236,

20311, 20327

Lexicon20314

Loewe 20313, 20320 Longzhipai 20354

Magnavox 20081, 20142, 20283,

20294, 20297, 20310

Malata 20346

Marantz 20145, 20146, 20297

Maxview 20368 McIntosh 20211

Memorex 20090, 20282

Microsoft 20296 Mintek 20159, 20301 Mitsubishi 20092, 20295

Mitsui 20353 Mitzu 20348 NAD 20156, 20333 Nakamichi 20170, 20400

Napa 20350 Nesa 20301 Next Base 20312 NexxTech 20187 Niro 20401

Norcent 20095, 20221

Okon 20385

Onkyo 20099, 20110, 20285,

20294

Oppo 20163, 20188 Oritron 20101, 20292 Other Brand 20373 Pai Gao 20360

Panasonic 20016, 20017, 20018, 20019, 20020, 20021, 20022, 20023, 20073, 20075, 20080, 20118, 20128, 20129, 20130, 20197, 20198, 20222, 20229, 20230, 20232, 20233, 20284,

20294 Panda 20379 Parasound 20212 Philco 20286, 20351

Philips 20006, 20040, 20041, 20081, 20294, 20297, 20314

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Pioneer 20042, 20043, 20044, 20045, 20134, 20147, 20234,

20298

Polaroid 20027, 20133, 20208,

20402

Polk Audio 20297 Portland 20317 Power Sound 20348 Prima 20192, 20403 Primas 20335 Princeton 20315 Proceed 20300

Proscan 20082, 20296

Protron 20213 Pye 20166

Qinghuatongfang 20382

Qisheng 20372 Qixing 20391 Qwestar 20101

RCA 20038, 20039, 20082, 20286, 20296, 20298, 20301

Regent 20291 Rio 20306

Rotel 20214, 20299

Rowa 20287 Royal 20351 Saba 20404

Sampo 20157, 20325, 20328

Samsung 20011, 20012, 20013, 20014, 20015, 20077, 20079, 20083, 20088, 20125, 20176,

20191, 20231, 20284 Sansui 20127, 20282 Sanyo 20200, 20282, 20304

Sast 20336

Sensory Science 20327

Shanshui 20374

Sharp 20120, 20139, 20140, 20141, 20204, 20328 Sharper Image 20323

Sherwood 20203, 20317 Shinco 20136

Shinsonic 20159, 20293 Shumaling 20337

Sigma Designs 20315 Skyworth 20375 Sonashi 20356

Sonic Blue 20306, 20396

Sonico 20352

Sony 20000, 20001, 20002, 20003, 20004, 20005, 20071, 20074, 20078, 20084, 20089,

20177, 20178, 20179, 20194, 20223, 20224, 20225, 20293

Sowa 20347 Spectroniq 20215 Sungale 20184

Superscan 20103, 20283

Supersonic 20351

SVA 20319

Sylvania 20041, 20103, 20148, 20149, 20283, 20310, 20329

Symphonic 20103, 20183

Tatung 20366 TCL 20371

Teac 20136, 20286 Technics 20284 Techwood 20153 Terapin 20321 Theta Digital 20298

Tianli 20343

Toshiba 20006, 20007, 20008, 20009, 20010, 20072, 20105, 20109, 20121, 20196, 20226, 20227, 20228, 20282, 20294

Tredex 20318

Trutech 20186, 20218 Tsinghuatongfang 20357

Tview 20173

Urban Concepts 20294

US Logic 20159

Venturer 20201, 20286

Victor 20380

Vizio 20322, 20324, 22000 Vocopro 20175, 20216 VocoStar 20217

Wanbao 20355 Wanyan 20346 Weifa 20381

Westinghouse 20113

Xbox 20296 Xianpai 20338 Xindai 20387

Yamaha 20016, 20107, 20284,

20297 YMT 20356 Youbishen 20341 Yuxing 20339

Zenith 20091, 20094, 20097, 20294, 20303, 20306

Amplifier / Receiver / Tuner Codes

Accurian 30164 ADA 30165 ADC 30133 Adcom 30104

Aiwa 30087, 30162, 30260

Alco 30139

Altec Lansing 30166

AMC 30167

Amphion Media Works 30140,

30145

Amplifier Technologies 30200

AMW 30140

Anam 30135, 30149

Antex 30168 Apex 30099 Apple 30169 Aragon 30201

Atlantic Technology 30170
Audio Access 30202
Audio Authority 30203
Audio Tron 30171
Audiophase 30204
AudioSource 30205
Audiotronic 30136

B & K 30105

Bang & Olufsen 30144 Blaupunkt 30206 Bondstec 30207

Audiovox 30098, 30139

Bose 30062, 30076, 30150,

30151, 30261

Boston Acoustics 30146

Cambridge Soundworks 30121 Capetronic 30133, 30208 Carver 30136, 30162

Casio 30209 Celestion 30210 Clarion 30211 Classic 30109 Clatronic 30212

Coby 30092, 30213, 30262

Compaq 30172 Creative 30173 Crown 30214 Curtis 30103, 30215

Curtis Mathes 30129 Daewoo 30216 DBX 30174 Dell 30217 Delphi 30218

Denon 30051, 30052, 30053, 30054, 30055, 30102

EAD 30219 Eclipse 30220 Elan 30176

D-Link 30175

Electrohome 30152 Emerson 30112, 30256

Farenheit 30221
Felston 30177
Fonmix 30163
Fosgate 30170
GE 30046, 30128
Go Video 30153
GPX 30100, 30257
Griffin 30178
Hanwah 30222

Harman/Kardon 30130, 30162

iHome 30263 iLive 30124 iLuv 30258 Imerge 30179 Inkel 30223 Insignia 30120 Insten 30180 Integra 30132 iPort 30181

iSymphony 30125, 30258

Jamo 30126 JBL 30097 Jensen 30154 Jerrold 30182

JVC 30031, 30032, 30033, 30034, 30035, 30259

Jwin 30265 KEF 30155

Kenwood 30036, 30037, 30038, 30039, 30040, 30065, 30071,

30077, 30137 KLH 30139 Klipsch 30147 Koss 30117, 30138 Krell 30110

Lasonic 30156 Left Coast 30130 Lexicon 30224 LG 30093, 30264 Ligitek 30183 Linn 30162 Luxman 30184 LXI 30225

Magnadyne 30226 Magnat 30227

Magnavox 30066, 30133, 30136,

30162

Magnum Dynalab 30228 Marantz 30106, 30130, 30136,

30162

Mark Levinson 30185 Matrix Audio 30229

MCE 30230 McIntosh 30111 Mediacom 30231 Memorex 30186 Meridian 30232 Micromega 30233 Mitsubishi 30096 Motorola 30234

Musical Fidelity 30235 NAD 30143, 30148 Nakamichi 30142, 30157 NEC 30131, 30236 Netgear 30187 Nikko 30237 Niles 30238 Niro 30158 Nubert 30188 Nuvo 30239

Onkyo 30041, 30042, 30043, 30044, 30045, 30067, 30069, 30070, 30075, 30080, 30091 Optimus 30129, 30133, 30134,

30135

Oritron 30138

Olive 30189

Omnifi 30190

Panasonic 30019, 30020, 30021, 30022, 30023, 30115, 30116,

30255

Parasound 30113 Penney 30240

Performance Teknique 30241 Philips 30094, 30130, 30136,

30162

Pioneer 30024, 30025, 30026, 30027, 30028, 30029, 30030, 30060, 30063, 30078, 30127, 30129, 30133, 30134

Polaroid 30159

Polk Audio 30107, 30130, 30162

Prima 30160 Primare 30242 Proscan 30046

RCA 30046, 30047, 30048, 30049, 30088, 30129, 30133, 20424, 20425, 20429

30134, 30135, 30139

Revox 30243
Rio 30141
Roku 30191
Russound 30244
Saba 30161
Samsung 30073
Sangean 30245
Sansui 30162, 30246

Sanyo 30118

Sharp 30101, 30122, 30259 Sherwood 30089, 30123

Shure 30131 SII 30247

Sonic Blue 30141, 30153 Sony 30000, 30001, 30002, 30003, 30004, 30005, 30006, 30007, 30056, 30057, 30058, 30059, 30061, 30064, 30074, 30077, 30082, 30083, 30084,

30085, 30086 Soundesign 30128 Soundmatters 30114 Soundstream 30248 Spatializer 30192 SpeakerCraft 30249 Stereophonics 30134 Sunfire 30137

SuperTech 30250

Teac 30135, 30139, 30258
Technics 30022, 30050
Techwood 30251
Teknika 30193
Thorens 30136
Tivoli Audio 30194
Topline 30252
Toshiba 30108
Universum 30253
Vector Research 30254

Velodyne 30195

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Venturer 30119, 30139 Wards 30127, 30128, 30162

Xantech 30196 Xitel 30197

Yamaha 30008, 30009, 30010, 30011, 30012, 30013, 30014, 30015, 30016, 30017, 30018, 30068, 30072, 30079, 30081,

30095, 30132 Zektor 30198 Zenith 30090 Zon 30199

### **Audio Accessory Codes**

# (Including CD Players and

Soundbars)

Acoustic Research 30294

ADC 30291 ADS 30295 Aiwa 30283 Akai 30292 ASI 33000

Audiophase 30282 Bose 30284

California Audio Labs 30296 Cambridge Audio 30297 Capetronic 30298 Carrera 30299

Carver 30300, 30331, 30332 Cary Audio Design 30301

CCE 30302 Clarion 30303 Classic 30304 Coby 30287 Cox Cable 33001 Creative 30305 DBX 30306 Denon 30267 Direct TV 33002 Dish Network 33003

DKK 30328

DMX Electronics 30331 Dynamic Bass 30332 Emerson 30279 Garrard 30307 Genexxa 30329 GPX 30280

Harman/Kardon 30273

Hitachi 30308 iHome 30288 iLuv 30286 Inkel 30309 iSymphony 30286

JVC 30269, 30281 Jwin 30290

Kenwood 30310, 30330

KLH 30311 Koss 30312 Krell 30331 LG 30289 Linn 30331 Luxman 30293 Magnavox 30313 Marantz 30314 Mark Levinson 30315

Mark Levinson 3 McIntosh 30316 Memorex 30317 Miro 30328 Mission 30331

Musical Fidelity 30318

NAD 30319 Nakamichi 30320 NEC 30321 Nikko 30322 NSM 30331 Onkyo 30268

Optimus 30328, 30329, 30332

Panasonic 30278
Philips 30275, 30276
Pioneer 30272
Polk Audio 30331
Proton 30331
QED 30331
Quad 30331
RCA 30266

Realistic 30332 Rotel 30331 SAE 30331 Samsung 30323 Sansui 30331 Sanyo 30324 SAST 30331 Sharp 30281 Sherwood 30325

Silsonic 30330 Sonic Frontiers 30331 Sony 30270, 30271, 30274

Super Atlas 33004 TAG McLaren 30331 Technics 30277 Techwood 30326 Tivoli Audio 30327 Vizio 33005 Wards 30331

Teac 30286

#### **VCR Codes**

Yamaha 30285

Zonda 30331

ABS 20410

Adventura 20050, 20250 Aiwa 20050, 20250 Akai 20061 Alienware 20410 American High 20249

Apex 20415

Asha 20054, 20247 Audio Dynamics 20058 Audiovox 20248, 20267 Beaumark 20054, 20247 Bell & Howell 20246 Broksonic 20279 Calix 20248

Candle 20247, 20248

Canon 20249 CineVision 20280

Citizen 20247, 20248, 20420

Colortyme 20058 Colt 20417

Craig 20054, 20247, 20248 Curtis Mathes 20058, 20247,

20249

Cybernex 20054, 20247 CyberPower 20410

Daewoo 20060, 20250, 20420

Davidson 20050
DBX 20058
Dell 20410
Denon 20055
DIRECTV 20407
Durabrand 20067
Dynatech 20050, 20250
Electrohome 20052, 20248
Electrophonic 20248

Emerson 20050, 20052, 20062, 20248, 20249, 20250, 20420

Fisher 20246 Fuji 20249 Funai 20050, 20062, 20250 Garrard 20050, 20250 Gateway 20410

GE 20054, 20247, 20249, 20418

Go Video 20054

GoldStar 20058, 20066, 20248,

20419

Gradiente 20050, 20250 Harley Davidson 20250 Harman/Kardon 20058 Headquarter 20246 Hewlett Packard20410 Hitachi 20050, 20055 Howard Computers 20410

Hughes Network Systems 20055,

20407

Humax 20407 Hush 20410

iBUYPOWER 20410 Instant Replay 20249

JC Penney 20058, 20246, 20247,

20248, 20249 JCL 20249

JVC 20056, 20057, 20058, 20246, 20254, 20264, 20265, 20266, 20268, 20269, 20270,

20271

Kenwood 20058, 20246 Kodak 20248, 20249

LG 20248 Linksys 20410 Lloyd's 20050, 20250

LXI 20248

Magnasonic 20062, 20420 Magnavox 20050, 20062, 20067,

20069, 20249

Magnin 20054, 20248, 20418 Marantz 20058, 20246, 20249

Marta20248 Matsushita 20249 Media Center PC 20410

MEI 20249

Memorex 20050, 20054, 20067, 20246, 20247, 20248, 20249, 20250, 20414, 20416, 20419
MGA 20052, 20054, 20418
MGN Technology 20054, 20247

Microsoft 20410 Mind 20410 Minolta 20055 Mitsubishi 20052, 20255

Motorola 20249

MTC 20050, 20054, 20247 Multitech 20050, 20247, 20250

NEC 20058, 20246 Nikko 20248

Niveus Media 20410 Noblex 20054, 20247 Northgate 20410 Olympus 20249

Optimus 20062, 20248, 20416

Optonica 20065 Orion 20258, 20414

Panasonic 20017, 20018, 20019, 20046, 20249, 20273, 20274,

20413, 20416

Penney 20054, 20055, 20418,

20419

Pentax 20055 Philco 20249

Philips 20065, 20249, 20256,

20278, 20407

Philips Magnavox 20256

Pilot 20248
Polaroid 20415
Profitronic 20054
Pulsar 20067
Pye 20281
Quarte 20246
Quartz 20246
Quasar 20249, 20416

RadioShack 20050, 20065, 20248, 20249, 20065, 20246,

20247, 20250 Radix 20248 Randex 20248

RCA 20053, 20054, 20055, 20247, 20249, 20252, 20275,

20276, 20418

Realistic 20050, 20065, 20246, 20247, 20248, 20249, 20250,

20065

ReplayTV 20413 Ricavision 20410 Runco 20067

Samsung 20054, 20059, 20060, 20061, 20247, 20263, 20277,

20407

Sanky 20067

Sansui 20050, 20258, 20414

Sanyo 20054, 20246, 20247,

20418

Scott 20052, 20060

Sears 20050, 20055, 20246, 20248, 20249, 20419 Sharp 20064, 20065, 20257 Shogu20054, 20247

Singer 20249 Sonic Blue 20413

Sony 20047, 20048, 20049, 20050, 20251, 20253, 20260, 20261, 20262, 20272, 20410

Stack 20410 STS 20055, 20249 SuperScan 20063

Sylvania 20050, 20052, 20062,

20063, 20249, 20250 Symphonic 20050, 20062,

20063, 20250 Systemax 20410 Tagar Systems 20410

Tandy 20246
Tashiko 20248
Teac 20050, 20250
Technics 20249

Teknika 20050, 20248, 20249,

20250

Thomas 20050 Tivo 20407 TMK 20054, 20247

Toshiba 20051, 20052, 20060,

20259, 20410

Totevision20054, 20247, 20248

Touch 20410

Unitech 20054, 20247

Vector 20060

Vector Research 20058 Video Concepts 20058, 20060 Videosonic 20054, 20247

Viewsonic 20410 Villain 20050 Voodoo 20410

Wards 20050, 20054, 20055, 20065, 20247, 20248, 20249,

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XR-1000 20050, 20249, 20250 Yamaha 20058, 20246 Zenith 20050, 20066, 20067,

20068

ZT Group 20410

# **Chapter 10 Maintenance and Troubleshooting**

# Cleaning the TV and Remote Control

- 1. Remove the power adapter cable from the TV.
- 2. Use a soft cloth moistened with diluted neutral cleaner to clean the TV and remote control. VIZIO recommends using an HDTV cleaning solution which can be purchased at any major retailer.
- 3. Wring liquid out of the cloth before cleaning to prevent water from penetrating into the housing.
- 4. Wipe the TV and remote control with a dry cloth after cleaning.

#### Important:

- Do not use volatile solvent (such as toluene, rosin and alcohol). Such chemicals may damage the housing, screen glass, and remote control, and cause labeling to peel.
- The screen glass is very fragile. Do not scrape it with any sharp object.
- Do not press or tap the screen to avoid cracking.

# **Troubleshooting Guide**

If the TV fails or the performance changes dramatically, check the following troubleshooting guide for possible solutions. Remember to check the peripherals to pinpoint the source of the failure. If the display still fails to perform as expected, contact the VIZIO for assistance by calling 1-877-MYVIZIO (698-4946) or e-mail us at techsupport@vizio.com.

General TV Problems	Solution
Receive the error message "No Signal."	<ul> <li>Press the INPUT button on the remote control to select a different input source.</li> <li>If you are using cable connected directly to the TV or an antenna, scan for channels from the Tuner menu in the OSD.</li> <li>Press the TV button on the top of the remote to return to the TV mode.</li> </ul>
No power.	<ul> <li>Make sure the power button is ON (VIZIO logo glows white).</li> <li>Make sure the AC power cord is securely connected to the AC socket.</li> <li>Plug another electrical device to the power outlet to verify that the outlet is working.</li> </ul>
No sound.	<ul> <li>Press Volume + (Up) on the remote control.</li> <li>Press MUTE on the remote control to make sure that MUTE is not ON.</li> <li>Check your audio settings. The audio may be set to SAP, or the speakers are set to off.</li> <li>Check the audio connections of external devices that may be connected to the HDTV.</li> <li>If you are using an antenna, the signal strength of the channel may be low. Make sure your antenna is connected securely to the TV and move the antenna around the room or close to a window.</li> </ul>
If the screen is black.	<ul> <li>Make sure the power button is ON (VIZIO Logo glows white).</li> <li>Press the INPUT button on the remote control to select a different input source.</li> <li>Check the connections of external devices that may be connected to the HDTV.</li> <li>Press the TV button on the top of the remote to return to the TV mode.</li> </ul>

General TV Problems	Solution
Power is ON but there is no image on the screen.	<ul> <li>Make sure all cables attached to the HDTV are connected to the correct output on the external device.</li> <li>Adjust brightness, contrast or backlight.</li> <li>Press the INPUT button on the remote control to select a different input source.</li> <li>Press the TV button on the top of the remote to return to the TV mode.</li> </ul>
Wrong or abnormal colors appear.	<ul> <li>Check Color and Tint settings in Picture Menu.</li> <li>Reset Picture settings.</li> <li>Check the video cables to make sure they are securely connected.</li> <li>If you are using an antenna, the signal strength of the channel may be low. Make sure your antenna is connected securely to the TV and move the antenna around the room or close to a window.</li> </ul>
Control buttons do not work.	<ul> <li>Press only one button at a time.</li> <li>Press the TV button on the top of the remote to return to the TV mode.</li> </ul>
Remote control does not work.	Point the remote control directly at the remote sensor on your TV.     Remove any obstacles between the remote control and the remote sensor.     Replace dead batteries with new ones.     Press the TV button on the top of the remote to return to the TV mode.
There appear to be image quality issues.	<ul> <li>If you are using an antenna, the signal strength of the channel may be low. Make sure your antenna is connected securely to the TV and move the antenna around the room or close to a window.</li> <li>For best image quality, view HD wide-screen programs where possible.</li> <li>If HD content is not available view "Standard Definition" from a digital source.</li> <li>Standard, analog TV will always be noticeably inferior to HD because your digital flat panel TV has video that is many times better than old TV so you will see interference and deficiencies you did not know you had.</li> </ul>
You cannot see a picture.	<ul> <li>Make sure the power button is ON (VIZIO logo glows white).</li> <li>Make sure the AC power cord is securely connected to the AC socket.</li> <li>Press the INPUT button on the remote control to select a different input source.</li> <li>Press the TV button on the top of the remote to return to the TV mode.</li> <li>Check the connections of external devices that may be connected to the HDTV.</li> <li>If your HDTV is connected to a computer, press any button on your keyboard to "wake" your computer.</li> <li>If you are using an antenna, the signal strength of the channel may be low. Make sure your antenna is connected securely to the TV and move the antenna around the room or close to a window.</li> </ul>
You see a distorted picture or hear unusual sound.	You may be getting interference from electrical appliances, cars, motorcycles, or fluorescent lights. If you have not mounted it on the wall, try moving your HDTV to another location to see if this is the cause of the problem.
The picture has abnormal patterns.	<ul> <li>Check the connections of external devices that may be connected to the HDTV.</li> <li>Make sure the specifications of external devices meet the specifications of your HDTV (like resolution).</li> <li>If you are using an antenna, the signal strength of the channel may be low. Make sure your antenna is connected securely to the TV and move the antenna around the room or close to a window.</li> </ul>

General TV Problems	Solution
The display image does not cover the entire screen.	If you are in RGB mode (Computer), make sure that H-Size and V-Position in the On Screen Display (OSD) are set correctly.
	If you are using TV, AV1, AV2 or Component with 480i input, press the WIDE button on the remote control to scroll through various screen modes.
You can see a picture but you	Press Volume + (Up) on the remote control.
cannot hear sound.	Press MUTE on the remote control to make sure that MUTE is not ON.
	Check your audio settings. The audio may be set to SAP, or the speakers are set to off.
	Check the audio connections of external devices that may be connected to the HDTV.
The TV has pixels (dots) that are always dark or colored.	Your HDTV is manufactured using an extremely high level of precision technology, however, sometimes some pixels of your HDTV may not display. Pixel defects within industry specifications are inherent to this type of product and do not constitute a defective product.
You see "noise" or "trash" on the screen.	When your HDTV's digital capabilities exceed a digital broadcast signal, the signal is up-converted (increased) to match your TV's display capabilities. Up-converting can cause noise or trash.
	If you are using an antenna, the signal strength of the channel may be low. Make sure your antenna is connected securely to the TV and move the antenna around the room or close to a window.
You switch to a different input and the volume changes.	The TV remembers the volume level from the last time you adjusted it. If the sound level is higher or lower from another source, then the volume will change.
You switch to a different input and the screen size changes.	The TV remembers the viewing mode from the last time you used a particular input (AV-1, AV-2, Component, HDMI and TV).
Tips for High-Definition Users.	Your HDTV is an ideal platform for viewing High Definition Content.
	Best image quality will be achieved by HDMI. The next best is Component, followed by Composite.
	Due to variances in broadcast practices, it is possible some image distortions can occur.
Tips for Letterbox Content Users.	Some Letterboxed (or "Widescreen") versions of DVD movies are formatted for standard 4:3 Televisions. Your HDTV has the ability to expand this content so the entire screen is filled at the expense of image accuracy. To use this function, press ZOOM on the remote control to cycle among the options.

Media Viewer Problems	Solution
USB device is not recognized.	Make sure the device is correctly inserted.
	Make sure the device is FAT or FAT32
	Make sure it contains the supported files.
Image or sound is interrupted	Make sure the device is correctly inserted.
or distorted.	Make sure that the file complies with the supported format, bit rate and/or profile.  Also check the file for damage.
	Some files that comply with the supported format may not play back or display properly.
Slideshow doesn't start.	Make sure the viewer isn't in pause, rotation, or zoom mode.

### **Telephone & Technical Support**

Products are often returned due to a technical problem rather than a defective product that may result in unnecessary shipping charges billed to you. Our trained support personnel can often resolve the problem over the phone. For more information on warranty service or repair, after the warranty period, contact our Support Department at the number below.

Customer support and quality service are integral parts of VIZIO's commitment to service excellence.

For technical assistance contact our VIZIO Technical Support Department via email or phone.

Email: techsupport@VIZIO.com (877) 698-4946 Fax: (949) 585-9563

Hours of operation: Monday - Friday: 6 am to 9 pm

Saturday - Sunday: 8 am to 4 pm

Have your VIZIO model number, serial number, and date of purchase available before you call.

VIZIO

Address:

39 Tesla

Irvine, CA 92618, USA

Telephone: (888) 849-4623 (949) 428-2525 Fax: (949) 585-9514

Web: www.VIZIO.com

## Compliance

Caution: Always use a power cable that is properly grounded. Use the AC cords listed below for each area.

USA: UL Canada: CSA
Germany: VDE UK: BASE/BS
Japan: Electric Appliance Control Act

#### FCC Class B Radio Interference Statement

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- 1. Reorient or relocate the receiving antenna.
- 2. Increase the separation between the equipment and receiver.
- 3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- 4. Consult the dealer or an experienced radio/TV technician for help.

#### Notice:

- 1. The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- Shielded interface cables and AC AC/DC power adapter, if any, must be used in order to comply with the emission limits.
- 3. The manufacturer is not responsible for any radio or TV interference caused by unauthorized modification to this equipment. It is the responsibilities of the user to correct such interference.

# **Chapter 11 Specifications**

Product specifications may change without notice or obligation.

# **E420VL Specifications**

E420VL Specific		fications	
Panel	42.02" Diagonal, 16:9 Aspect Ratio		
Resolution	1920 x 1080 pixels		
Pixel (Dot) Pitch	0.4845mm (H) x 0.4845mm (H)		
Display Compatibility	1080P (FHDTV)		
Colors	1.06 billion @ 10 bit		
Brightness cd/m2 (typical)	500nits		
Contrast	Dynamic Contrast Ratio: 100,000:1		
Response Time	5ms (typical)		
Viewing Angle	178° (horizontal/vertical)		
Inputs	3 x HDMI with HDCP (1 with L/R audio inputs 1 x RF (F connector for internal tuner) 1x Composite Video and Stereo Audio 1x Component YPbPr plus Stereo Audio 1x Computer RGB plus Stereo Audio 1x USB (side)		
Outputs	1x 5.1 S/PDIF Optical Digital Audio, 1x Stereo Audio		
Features	MEMC,1080P FHDTV,120Hz PANEL, 10-BIT DECODER, HDMI v1.3, 3D COMB FILTER, I CONTRAST RATIO TECHNOLOGY, ZERO E PORT, DIGITAL AUDIO AMPLIFIER, NOISE ATSC/QAM, SIGNAL COMPATIBILITY: 480I(1080I(HDTV), 1080P(FHDTV), CHANNEL SK NAMING CAPABILITY, CLOSED CAPTION, PROGRAMMABLE TIMER, PIP/POP, SRS T COMPATABILE, MULTIMEDIA.	DIGITAL AUDIO AMPLIFIER, DYNAMIC BRIGHT PIXEL GUARRANTEE, HD GAME REDUCTION, DOLBY DIGITAL FOR (SDTV), 480P(EDTV), 720P(HDTV), KIP/ADD, FAVORITE CHANNEL, VIDEO/INPUT PARENTAL CONTROL/V-CHIP 2.0,	
Special Features	<ul> <li>120Hz panel W/O scanning backlight</li> <li>Multimedia(JPEG)</li> <li>HDMI CEC</li> <li>Ambient light sensor</li> <li>1080 FHDTV</li> <li>HDMI v1.3</li> <li>DYNAMIC CONTRAST RATIO TECHNOLOGY</li> <li>DOLBY DIGITAL FOR ATSC/QAM</li> </ul>	480I(SDTV), 480P(EDTV), 720P(HDTV), 1080I(HDTV), 1080P (FHDTV)     CHANNEL SKIP VIDEO/INPUT NAMING CAPABILITY     CLOSED CAPTION     PARENTAL CONTROL/V-CHIP 2.0     PROGRAMMABLE TIMER     SRS TSHD     SRS TruVolume     DETACHABLE BASE	
Speakers	2xBuilt-in, 10W Speakers	11	
Panel Life	50,000 hours to half the original brightness		
	1,		

Power	
Input	IEC Connector for direct power line connection
Voltage Range	100~240Vac at 50/60Hz
Power Consumption	111W (Avg), 0.37W standby
Environmental Conditi	ons
Operating	Temperature: 5°C~35°C, Relative Humidity: 20~80%, Altitude: 0~14,000 ft
Non-Operating	Temperature: -20°C~50°C, Relative Humidity: 10~70%, Altitude: 0~40,000 ft
Dimensions	40.26" W x 27.48" H x 8.99" D with stand; 40.26" W x 25.91" H x 3.51" D without stand
	1022.6 x 698 x 228.4 mm with stand;1022 x 658 x 91.19 mm without stand
Net Weight	32.85 lbs with stand; 31.09 lbs without stand
	14.9 kg with stand; 14.1 kg without stand
Gross Weight	42.99 lbs; 19.50 kg
Certifications	CSA, CSA-US, FCC Class B
Compliances	Energy Star 4.0. ATSC Spec A/65, EIA/CEA-766-A

# **E470VL Specifications**

E470VL	Specifications
Panel	46.96" Diagonal, 16:9 Aspect Ratio
Resolution	1920 x 1080 pixels
Pixel (Dot) Pitch	0.5415mm (H) x 0.5415mm (V)
Display Compatibility	1080P (FHDTV)
Colors	1.06 Billion @ 10 bit color depth
Brightness cd/m2 (typical)	500nits
Contrast	Dynamic Contrast Ratio: 100,000:1
Response Time	5ms (typical)
Viewing Angle	178° (horizontal/vertical)
Inputs	3 x HDMI with HDCP (1 with L/R audio inputs)
	1 x RF (F connector for internal tuner)
	1x Composite Video and Stereo Audio
	1x Component YPbPr plus Stereo Audio
	1x Computer RGB plus Stereo Audio
	1x USB (side)
Outputs	1x 5.1 S/PDIF Optical Digital Audio, 1x Stereo Audio
Features	MEMC,1080P FHDTV,120Hz PANEL, 10-BIT VIDEO PROCESSING,MTS STEREO DECODER, HDMI v1.3, 3D COMB FILTER, DIGITAL AUDIO AMPLIFIER, DYNAMIC CONTRAST RATIO TECHNOLOGY, ZERO BRIGHT PIXEL GUARRANTEE, HD GAME PORT, DIGITAL AUDIO AMPLIFIER, NOISE REDUCTION, DOLBY DIGITAL FOR ATSC/QAM, SIGNAL COMPATIBILITY: 480I(SDTV), 480P(EDTV), 720P(HDTV), 1080I(HDTV), 1080P(FHDTV), CHANNEL SKIP/ADD, FAVORITE CHANNEL, VIDEO/INPUT NAMING CAPABILITY, CLOSED CAPTION, PARENTAL CONTROL/V-CHIP 2.0,

	PROGRAMMABLE TIMER, PIP/POP, SRS TSHD, SRS TruVolume, VESA MOUNT COMPATABILE, MULTIMEDIA.		
Special Features	120Hz panel W/O scanning backlight     Multimedia(JPEG)     HDMI CEC     Ambient light sensor     1080 FHDTV     HDMI v1.3     DYNAMIC CONTRAST RATIO TECHNOLOGY     DOLBY DIGITAL FOR ATSC/QAM	480I(SDTV), 480P(EDTV), 720P(HDTV), 1080I(HDTV), 1080P (FHDTV)     CHANNEL SKIP VIDEO/INPUT NAMING CAPABILITY     CLOSED CAPTION     PARENTAL CONTROL/V-CHIP 2.0     PROGRAMMABLE TIMER     SRS TSHD     SRS TruVolume     DETACHABLE BASE	
Speakers	2xBuilt-in, 10W Speakers		
Panel Life	50,000 hours to half the original brightness		
Power			
Input	IEC Connector for direct power line connection		
Voltage Range	100~240Vac at 50/60Hz		
Power Consumption	134W (Avg), 0.37W standby		
Environmental Condition	ins	4.00(00000	
Operating	Temperature: 5°C~35°C, Relative Humidity: 20~80%, Altitude: 0~14,000 ft		
Non-Operating	Temperature: -20°C~50°C, Relative Humidity: 10~70%, Altitude: 0~40,000 ft		
Dimensions	44.65" W x 29.99" H x 10.43" D with stand; 44.65" W x 28.44" H x 3.66" D without stand 1134 x 761.8 x 265 mm with stand; 1134 x 722.4 x 92.96 mm without stand		
Net Weight	44.75 lbs with stand; 39.68 lbs without stand; 20.3 kg with stand; 18 kg without stand		
Gross Weight	58.86 lbs; 26.7 kg		
Certifications	CSA, CSA-US, FCC Class B		
Compliances	Energy Star 4.0. ATSC Spec A/65, EIA/CEA-766-A		

# **E550VL Specifications**

E550VL	Specifications
Panel	54.64" Diagonal, 16:9 Aspect Ratio
Resolution	1920 x 1080 pixels
Pixel (Dot) Pitch	0.630 mm (H) x 0.630 mm (V)
Display Compatibility	1080P (FHDTV)
Colors	1.06 Billion @ 10 bit color depth
Brightness cd/m2 (typical)	500nits
Contrast	Dynamic Contrast Ratio: 100,000:1
Response Time	5ms (typical)
Viewing Angle	178° (horizontal/vertical)

Inputs	3 x HDMI with HDCP (1 with L/R audio inputs) 1 x RF (F connector for internal tuner) 1x Composite Video and Stereo Audio			
	1x Component YPbPr plus Stereo Audio			
	1x Computer RGB plus Stereo Audio 1x USB (side)			
Outputs	1x 5.1 S/PDIF Optical Digital Audio, 1x Stereo	Audio		
Features				
reatules	MEMC,1080P FHDTV,120Hz PANEL, 10-BIT VIDEO PROCESSING,MTS STEREO DECODER, HDMI v1.3, 3D COMB FILTER, DIGITAL AUDIO AMPLIFIER, DYNAMIC CONTRAST RATIO TECHNOLOGY, ZERO BRIGHT PIXEL GUARRANTEE, HD GAME PORT, DIGITAL AUDIO AMPLIFIER, NOISE REDUCTION, DOLBY DIGITAL FOR ATSC/QAM, SIGNAL COMPATIBILITY: 480I(SDTV), 480P(EDTV), 720P(HDTV), 1080I(HDTV), 1080P(FHDTV), CHANNEL SKIP/ADD, FAVORITE CHANNEL, VIDEO/INPUT NAMING CAPABILITY, CLOSED CAPTION, PARENTAL CONTROL/V-CHIP 2.0, PROGRAMMABLE TIMER, PIP/POP, SRS TSHD, SRS TruVolume, VESA MOUNT COMPATABILE, MULTIMEDIA.			
Special Features	120Hz panel W/O scanning backlight	• 480I(SDTV), 480P(EDTV), 720P(HDTV),		
	Multimedia(JPEG)	1080I(HDTV), 1080P (FHDTV)		
	HDMI CEC  Auchient Entre and and	CHANNEL SKIP VIDEO/INPUT NAMING CAPABILITY		
	Ambient light sensor     1080 FHDTV	CLOSED CAPTION		
	• HDMI v1.3	PARENTAL CONTROL/V-CHIP 2.0		
	DYNAMIC CONTRAST RATIO	PROGRAMMABLE TIMER		
	TECHNOLOGY	SRS TSHD     SRS TruVolume		
	DOLBY DIGITAL FOR ATSC/QAM	DETACHABLE BASE		
Speakers	2xBuilt-in, 15W Speakers			
Panel Life	50,000 hours to half the original brightness			
Power				
Input	IEC Connector for direct power line connection			
Voltage Range	100~240Vac at 50/60Hz			
Power Consumption	138W (Avg), 0.37W standby			
Environmental Conditi	ons			
Operating	Temperature: 5°C~35°C, Relative Humidity: 20~80%, Altitude: 0~14,000 ft			
Non-Operating	Temperature: -20°C~50°C, Relative Humidity: 10~70%, Altitude: 0~40,000 ft			
Dimensions	52.13" W x 34.44" H x 13.15" D with stand; 52.13" W x 32.56" H x 4.95" D without stand 1324 x 875 x 334 mm with stand;1324 x 827 x 125.7 mm without stand			
Net Weight	78.71 lbs with stand; 67.68 lbs without stand 35.7 kg with stand; 30.7 kg without stand			
Gross Weight	95.9 lbs; 43.5 kg			
Certifications	CSA, CSA-US, FCC Class B			
Compliances	Energy Star 4.0. ATSC Spec A/65, EIA/CEA-76	Energy Star 4.0. ATSC Spec A/65, EIA/CEA-766-A		

# **Preset PC Resolutions**

If connecting to a PC through the RGB PC input, set the TV timing mode to VESA 1920x1080 at 60Hz for best picture quality (refer to the graphic card's user guide for questions on how to set this timing mode). See the table below for the factory preset resolutions.

Mode No.	Resolution	Refresh Rate (Hz)	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Horizontal Sync Polarity (TTL)	Vertical Sync Polarity (TTL)	Pixel Rate (MHz)	Remark
1	640 x 480	60	31.469	59.941	N	N	25.175	Windows
2	640 x 480	75	37.500	75.000	N	N	31.500	Windows
3	800 x 600	60	37.879	60.317	Р	Р	40.000	Windows
4	800 x 600	72	48.077	72.188	Р	Р	50.000	Windows
5	800 x 600	75	46.875	75.000	Р	Р	49.500	Windows
6	1024 x 768	60	48.363	60.004	N	N	65.000	Windows
7	1024 x 768	70	56.476	70.069	N	N	75.000	Windows
8	1024 x 768	75	60.023	75.029	Р	Р	78.750	Windows
9	720 x 400	70	31.469	70.087	N	Р	28.322	DOS
10	⊚1920 x 1080	60	66.587	59.934	Р	N	138.50	Windows

Note: P: positive, N: negative, ⊚: Primary mode

# **Resolution through RGB Input**

If your PC supports VESA Reduce Blanking timing via the VGA card drive program (usually offered by the VGA Card Manufacturer), your TV set is equipped to have the 1920x1080 resolution display through this connection using the following timing 138.5MHz. The following parameters are often the values required by the software or programs to set up the display:

Parameters	Horizontal Values (Pixels)	Vertical Values (Lines)
Address	1920	1080
Front Porch	48	3
Sync Width	32	5
Back Porch	80	23
Total	2080	1111
Frequency	66.587 KHz	59.934 Hz
Sync Polarity	Р	N
Pixel Rate (MHz)	138.5	
Refresh Rate (Hz)	60	

# Warranty

#### **ONE-YEAR LIMITED WARRANTY ON PARTS AND LABOR**

(Covers units purchased as new in United States and Puerto Rico Only)

VIZIO provides a warranty to the original purchaser of its products against defects in materials and workmanship for a period of one year of non-commercial usage and ninety (90) days of commercial use. If a VIZIO product is defective within the warranty period, VIZIO will either repair or replace the unit at its sole option and discretion.

To obtain warranty service, contact VIZIO Technical Support via email: TechSupport@VIZIO.com or via phone at 877 MY VIZIO (877.698.4946) from 6:00AM to 9:00PM Monday through Friday and 8:00AM to 4:00PM Saturday and Sunday, Pacific Time, or visit <a href="www.VIZIO.com">www.VIZIO.com</a>. Proof of purchase in the form of a purchase receipt or copy thereof is required.

#### Parts and Labor

There will be no charge for parts or labor during the warranty period. Replacement parts and units may be new or recertified at VIZIO's option and sole discretion. Replacement parts and units are warranted for the remaining portion of the original warranty or for ninety (90) days from warranty service or replacement, whichever is later.

#### **Types of Service**

Units 30" or larger will usually be serviced in-home. In-home service requires complete and easy access to the unit and does not include de-installation or re-installation of the product. However, in some cases, it may be necessary to send the unit to a VIZIO service center. VIZIO will cover the transportation charges to and from the same customer location.

Units less than 30" must be sent to a VIZIO service center. VIZIO is not responsible for transportation costs to the service center, but VIZIO will cover return shipping to the customer. PRE-AUTHORIZATION IS REQUIRED BEFORE SENDING ANY UNIT IN FOR SERVICE.

Any returns to VIZIO's service centers must utilize either the original carton box and shipping material or a replacement box and material provided by VIZIO. VIZIO technical support will provide instructions for packing and shipping the unit to the VIZIO service center.

#### **Limitations and Exclusions**

VIZIO's one-year limited warranty only covers defects in materials and workmanship. Items not covered include but are not limited to cosmetic damage, normal wear and tear, misuse, signal issues, power surges, and damages from shipping, acts of God, any sort of customer misuse, installation, customer modifications, adjustments, and set-up issues. Units with unreadable or removed serial numbers, "image burn-in", and routine maintenance are not covered. This warranty does not cover products sold "AS IS", "FACTORY RECERTIFIED", or by a non-authorized reseller.

THERE ARE NO EXPRESS WARRANTIES OTHER THAN THOSE LISTED OR DESCRIBED ABOVE. ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED IN DURATION TO THE PERIOD OF TIME SET FORTH ABOVE. VIZIO'S TOTAL LIABILITY FOR ANY AND ALL LOSSES AND DAMAGES RESULTING FROM ANY CAUSE WHATSOEVER SHALL IN NO EVENT EXCEED THE PURCHASE PRICE OF THE DISPLAY. VIZIO SHALL NOT BE RESPONSIBLE FOR LOSS OF USE, COMMERCIAL LOSS, LOST REVENUE OR LOST PROFITS, OR OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS OR THE EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS, WHICH VARY FROM STATE TO STATE. THIS WARRANTY IS SUBJECT TO CHANGE WITHOUT NOTICE. CHECK <a href="https://www.vizio.com">www.vizio.com</a> FOR THE MOST CURRENT VERSION.

#### **Personal Data**

If your VIZIO product is capable of storing personal data and other information, ALL CONTENTS AND INFORMATION WILL BE DELETED IN THE COURSE OF SOME IN-HOME AND ALL SHIP-IN WARANTY SERVICE. If this occurs, your product will be restored to you configured as originally purchased. You will be responsible for restoring all applicable data and passwords. Recovery and reinstallation of user data is not covered under this Limited Warranty. In order to protect your personal information, VIZIO recommends that you always clear all personal information from the unit before it is serviced, regardless of the servicer.

#### ZERO BRIGHT PIXEL DEFECT GUARANTEE

This policy covers "zero bright pixel" defects for the duration of the limited "ONE YEAR WARRANTY" on select new product purchases. To determine if this guarantee applies to your product, refer to the "DETAILS" tab of the model's product information page (www.VIZIO.com) or look for the "zero bright pixel" guarantee on the box.

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